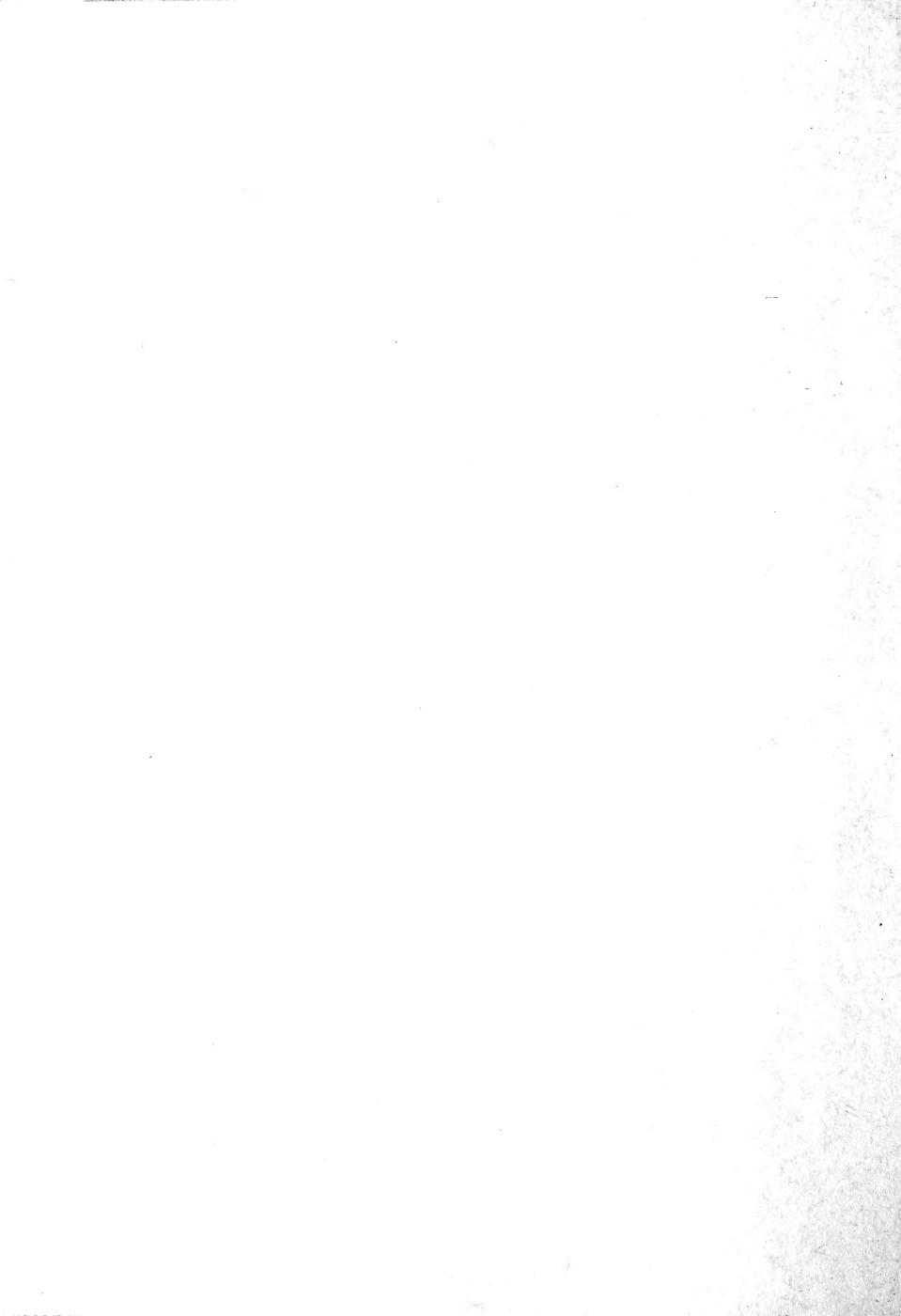


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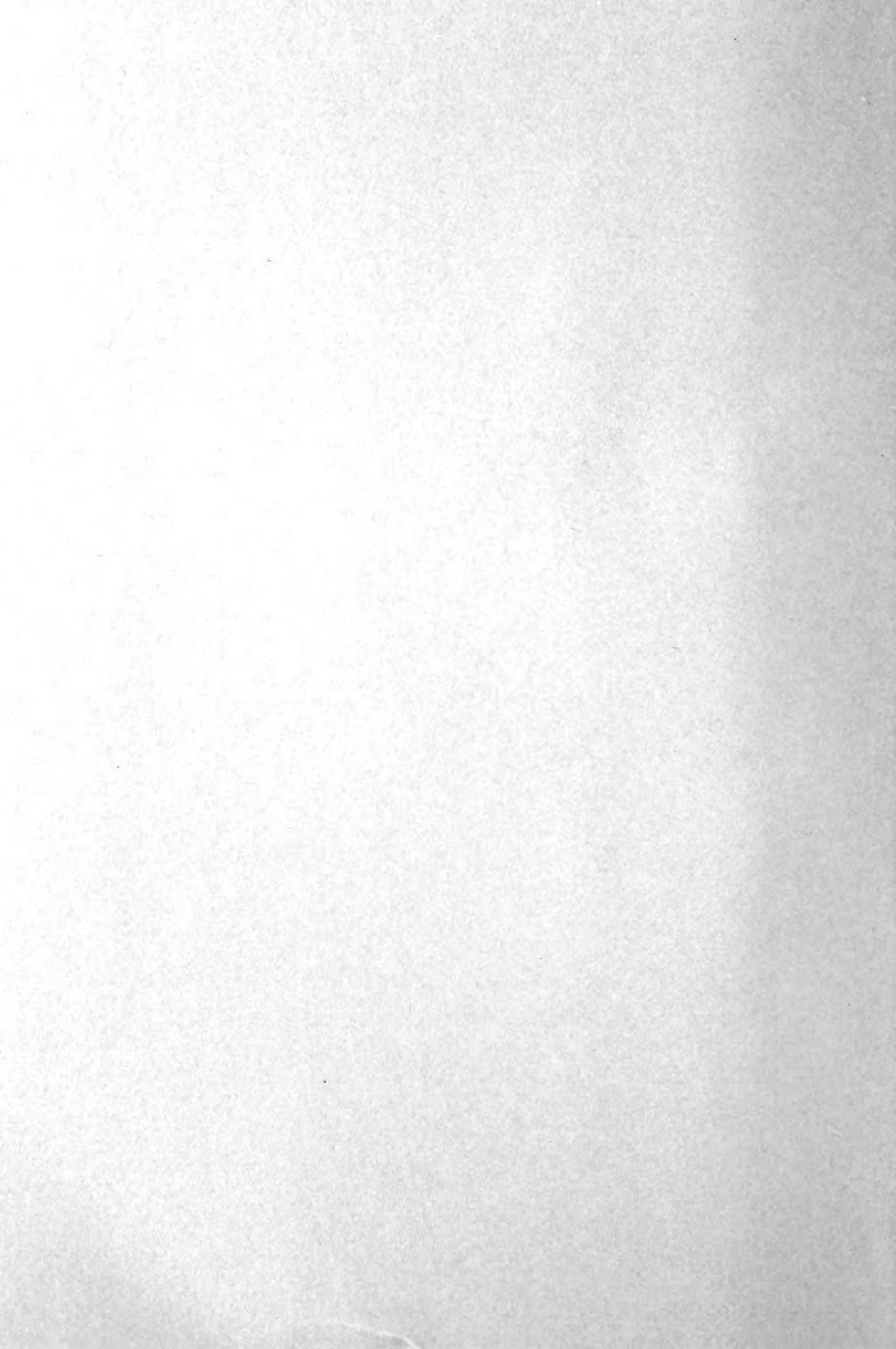
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Pearson, O.P.
1955

Catalogue

*4037-4368

Paru, Bolivia and Argantina

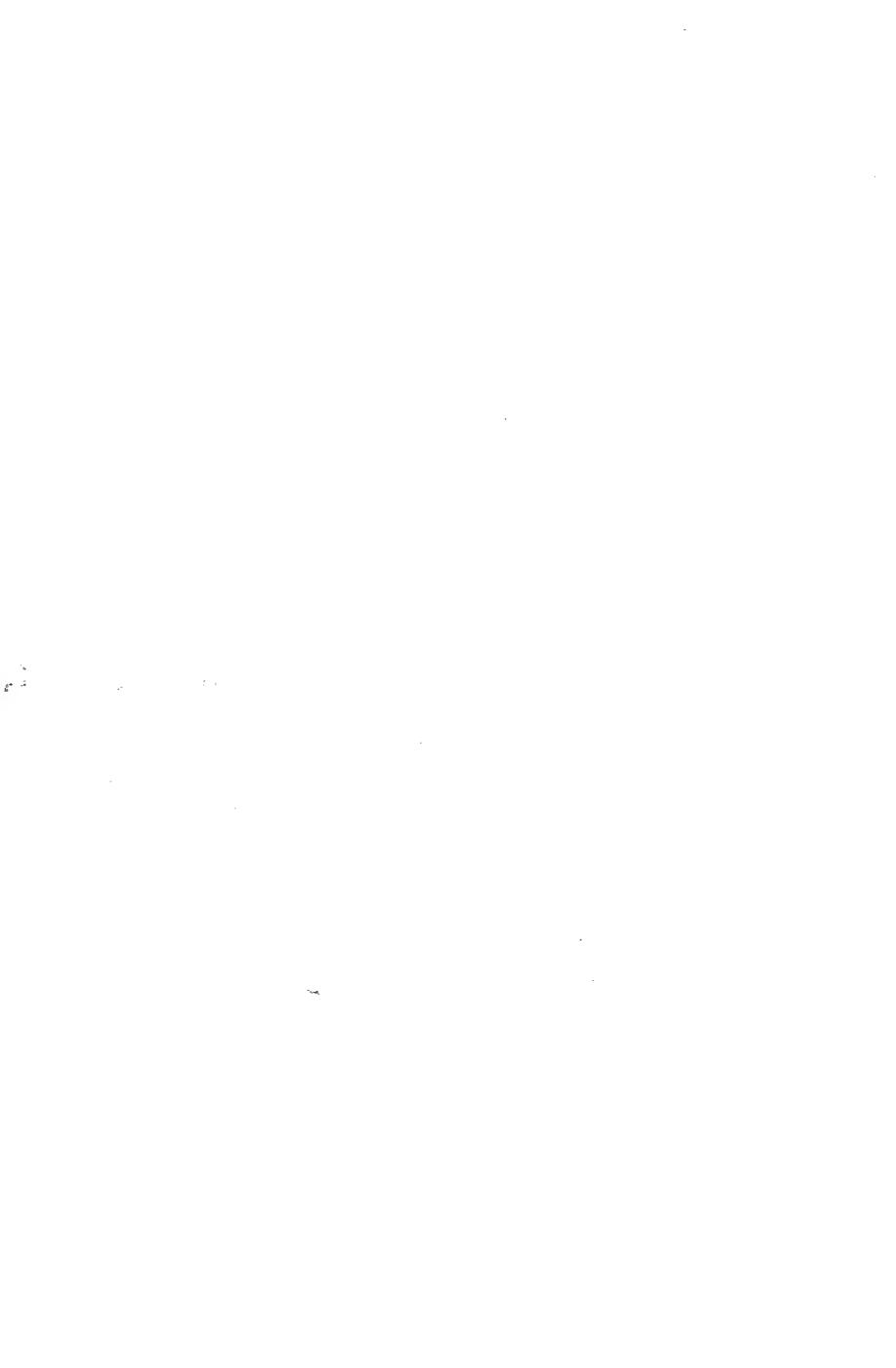


0. P. Pearson 1955

Pern, Bolivia, argentiva

catalog + Journal

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				*(Y)
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3 mi E maturano, 8200/ti, Deft of Lina

4053 Phyllotis ardining

228 × 117 × 26 × 23 teatro 9 orange metro 189 × 98 × 15 × 21 nor enclo

Son water, 9500 ft, Defet of Line, Pen

ary. 11

4056 & abolo 134×58×19½×10

4057 & Phylletin and 225×115×26×23 test 2m

4058 & 193×101×24½×21 m ruh

4059 & 120×114×26×23 test 2m

4060 & 120×114×26×23 test 2m

4061 & 120×109×25×22 test 2m

4062 & 120×106×25×22 test 2m

4062 & 188×96×24×19 morent.

4mi E Chosica, 3500ft, Deft of Lina Cem

4063 f. Phyllotic darwin hiratur 265 × 148 × 26 × 25 ear 23 acrose Told OK

4064 8 " " 238 × 126 ~ 26 × 26 " 24 " testes 10 ~ told OK

4065 0 " " 234 × 124 × 26 × 24 " 22 " testes que

4066 0 " " 240 × 132 × 26 × 26 " 24 " 5 V surphish

4067 0 " " 236 × 129 × 25 × 26 " 23 " Testic 11 ~ testic

Rinoc Valley, 4400 ft, Dept of Lino, Peru 2000 OK 4068 & Phylletin darwini biroton 266 × 146 × 27 × 26 eon 23 across teatrs 12 m 4069 & 229 × 126 × 26 × 26 "23" 4 cmh. 4070 & 233 × 124 × 26 × 27" 23" 3 cmh. 4071 & 234 × 126 × 25 × 25 "20" teatre 9 m 4072 & "226 × 125 × 26 × 26" 21" 5 × 2000 teatre 6 m 226 × 125 × 26 × 26" 21" 5 × 2000 teatre 6 m

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4087 - 7

4088 & akedon

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217 × [95] × 25 × 26 ear 20 across
                            [226]×[11] ×26×26 "23 "
                             224 × 117 × 25 × 25 " 22 "
                             212 × 112 × 25 × 24 " 22
            Imi. E San Bartolome, 400 ft, Dept. of Lina, Perm
                                214 × 104 × 27 × 19 mount.
                                  195×102×26×14
4074 9
           4 mi. E. Chosica, 3500ft, Defet of Lina, Ver
4076 & "T Look 138 × 26 × - Huge vognal/shy.
      Willavisto Villavisto, 12,200ft. (letween Lo Blanco + Casopoleo), Dest & Liva,
 4077 & Phylote archim
                                          246 × 128 × 25 × 23 xer 17 acm
                                         239×123×26×22 Testia 10
 4078 8
                                         212 × 115 × 26 × 22 " 16 "
 4079 8
                                         205 × 109 × 24 × 21 " 16 "
 4080 4
 4081 4
                                        225 × 123 × 25 × 21 "17"
                                        216 × 119 × 252 ×21 "17"
 4092 7
                                       219 × 119 × 26 × 22 " 17"
 4093 8
                                       204 × 107 × 26 × 22 " 16"
  4084 4
                                        162 × 72 × 20 × 19 woul.
  4085 & Hesperongs
                                       137×61×18×17
  4086 9
                                       145 × 63 × 19 × 18
```

165 x 64x 18 x 12

• . , . D. P. PEARSON

mi E Casapolea, Defst of Lina, Pern

ang. 14

4089 & Hesperongs 138 × 6 (x 20 × 18 117 * 39 - 19 * 18. 4090 8 188 × 70 × 24 × 19 testa 9 mm lock, no ence 4091 o Medonys ehrosm 4092 9 Phyllotia darwini posteolie 245 × 125 × 27 × 28 ear 21 across 230 × 115 × 26 × 25 " testie 10,5 V lung 4093 8 4094 8 228 × 110 × 29 × 25 " 18 " wets 10 4095 8 228 × 111 × 27 × 24 × 19 11 Cox 10 226 × 116 × 27 × 25 × 20 "2 emb 238 × 112 × 27 × 26 "21 " morne. 4096 9) - 4

> 12 mi. W Casopolea, 13,200 pt., Delst-of Live Rem aug. 15

4097 akodon jelokin 161×66×23×16 60 gm post - Evelals. 4098 9 Phylotia darwimpostishie 248 x 127 x 27 x 24 sar 19 aura tester 11 mm 4099 8 " " 252 × 126 ×28 × 25" 19 1,52 gm 240×124×27×26 "20" 45 gm 4100 9 " 210×109×26×24 "18" noemer. 29 give no end, 4102 \$ " artin 212 × 112 × 242 × 20 " (6" but parons 4103 8 " 213 × 114 × 25 × 20 " 16 ° 33 gras. no end, where 4104 4 217 x 119 x 26 x 20 " 16 " 31 gme fur. 207 × 110 × 26 × 21 "16 1 299m". Testie 4m. 4105 8 208 × 109 × 25 ×20

4106 3 Phystotis derminis himatur 216 × 114 × 27 × 26 "20" testis q. — 4107 9 Hisperonys 146 × 68 × 19 × 16

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O. P. PEADSON 1955

12 mi V Casofalce, 13,200 ft; (cont.)

4108 & Phyllotra darmin postrolis

4109 Hespervery

4112 & Miner

4110 9 Phyllotia pritus

195 ×101× 25 ×23 mg 18 across.

Minacaca, 13,500ft, Defet & Parco, Per

in mina mound. Testie 8, 50 large 118 × 41 × 18 × 19 18 gm

179 x 74 x 25 × 23 meml.

174×71×24×23

27 gmi small folkiles. skall ahret

10mi. NE Cew de Paseo, 13,000ft, Defot of Paseo, Ken

ang. 18 sometrop him as 4114
191×75 > 23×17 3 eml

4113 & Medway chiosne

4114 of abodon Jelskin 179×67×23×17 teste 8~

126×56×182×1) nourle 4115 9 Hesperings

163×67 ×20×>12 moent 4116 9 abodon

193 × 114×212×15 no end. 2011 & Orazondo

Cultray, 12,500 ft, 15 mi, NE Conta, Post of Line Hen

4118 F Hesperonys? 147 × 69 × 19 = × 19 teta Pm

154×64× 19× 19 post-lact.

Hwaraz 12,000ft, Dept-of Lina Rem

Centy 4-m 4120 # Phyllotin andin 215 × 113 × 26 × 23 sor 18 arm.

232 × 121 × 26 × 23

Phyllotis aughin 204×106×26×22 an 15 am 4122 8 Phyllotis andrin 4123 8 ? ang? 210×112×232×14 listis 4m

151x66x 18 x 18 5 end. 41244 Hespermys

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D. P. PEARSON 1955

3 mi. W Hvaros, 11, 300ft; Defet of Frio, Ven ang. 21, 1955

4125 8 Phyllotic andiin 220×116×25×22 ear 15 acrown 2174 114 4 25 × 22 ear 18" 4126 8 225× 122 × 25 × 23 18 18 4127 8 Oshi 5 4128 8 212× 107× 26× 22 " 17 " 4129 \$ 212 × 113 × 24 × 21 " 18 " (1 Imi W Canta, 8800ft Delst. of Linn, Perm outer 9, 50 large 212 × 112 × 26 × 22 car 16 aurin Tester 9, 5 v large 4130 & Phyllatic ardion 4131 8 222×110×26×22 "17" 4132 8 Hesperongs 144×61× 18× 18 4134 4 " 205×107×16×24 4134 4 184× 92× 15×22 ma enol. 2mi E. Chocas, 2000 ft., Chillon Valley, Dest- of Lina drg. 23 4135 Fotor dug drufpfing prehad up in Tellandain

4136 & Physlutis amicus

L139) {48 x22 2 x 24 ear 19 across.

storrock with greanish brown negetill matter

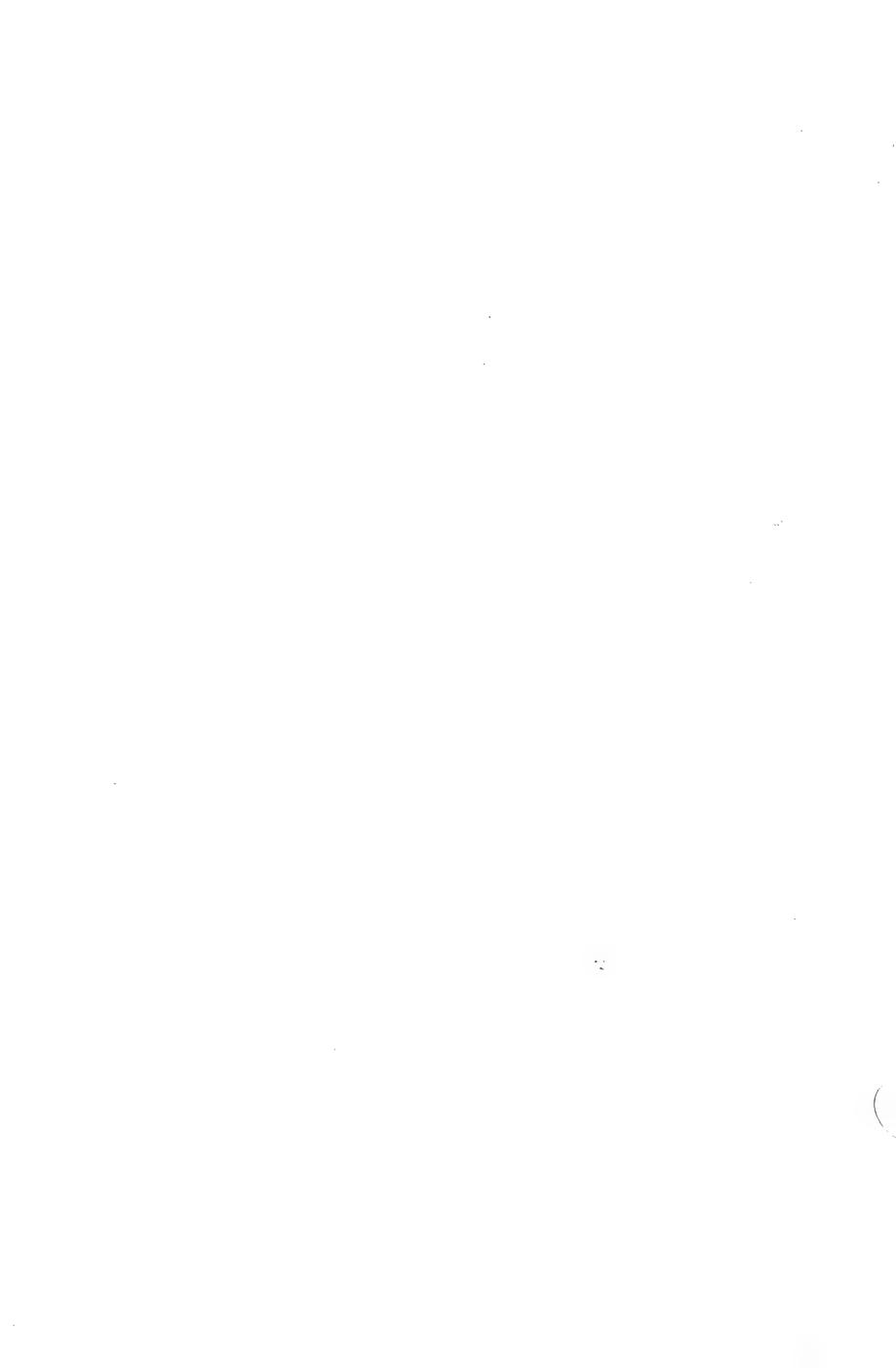
4137 or Phyllotia darwini biratus 24(x 131x 27 x 27 ears 22 oceans
1138 4. " jun [94] x |n) var " jun [94] x 27] x 25 x 23 " 19 " ma ene 4139 & Sylletie andrin 200 × 106 × 25 × 20 " 16 " comeral

Imin & Surco, 6000ft, Dapt of Lina, Rem 206 × 110 × 25 × 24 en 20 oeron no enh 4140 Phyllotin darumi 212×114×23×24 " 19 "4 hah 204×105 ×22×22 "18 "post-lack. 4142 4 " 201×106 × 22 × 23 "19" semb, 4143.7 " 1.1

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O. P. PEADSON 1955

> 4144 q Phytotis amiens 4145 q "" 204×110×232×22 en 18 across 201×103×22×22 "19 13 enles 4146 & Organit 179 × 42 × 24 = × 18 tests 4m Many 2200ft, Dept of Lina, Per testie 5 mg, 5 V small 4147 8 Phytota darwini hwatus 255×139×27×27 ear 23 across. (25 mint NW Prente alcomachay) Rio Mantaro, 8500ft; Dest of Hrancovelia, Rem my endo Plainted Scare present. Boses of mainta pinh 4148 & Phyllotis 247x 128x 27 x 25 ear 20 ocrans 170×77× 23×14 no line: lover t mais land, no ente 189×95× 25 2×23 ear 18 across 4149 9 melanomy2? 4150 Phyllotic 162×80× 19×18 fact, no end-4151 & Hesperomys. 2mi 5 agacreto, Post of Homewelier, Kern ang. 30 Cake 4-, 5 Karall 4152 8 Phyllotic 248×135×29×24 ear 19 ours 249 × 139 × 29 × 24 " 20"
>
> 229 × 127 × 28 × 24 " 18" Ca large 4153 8 4154 4 " 10 mi NE abavery 8000ft, Dept. of aprimor Rem 4155 & Hesperomys 195×96×21×20 163×79×18×17 4156 8 Sortakora de ayairin, 12,800 ft., Dept. & Pura Br. 221×113×24×2250med 41570 Phyllotz oslar 214 × 110 × 26 × 22 5 × med 4158 7



4179.8"

20 mi. S. LoPay, 13, vooft, La Pay, Bolina

205×109× 24×23 lar 19 acrush 4159 8 Phyllotis darwini 237×133×26×26 " 19 " 50 large 227×115×27×26 " 20" 50 large 4160 7 41618 " 41629 11 216×112×24×25 19" 4163 8 Phyllotie subhine (or Galennys?) 162 × 58 × 21 × 24 testia que 4164 8 Mms [135]-[58]-18×14 teste 5,5V small 4165 & Hesperynga string 120×38×17×17 teste 7,5V large 2 mi. E. Oruro, 12,500 st., Oruro, Bolina 4166 q Ctenonys 260× 70× 40× no end. non rocal. 20mi. NE Ormo, 14,000pt, Ormo, Bolinia Pulabet for Rules 41678 Phyllotia sublimi 4169 9 " 163×54×22×23 mosenh · 111+ 48 × 17 × 17 mt. lays, wends 4170 9 Hefferomys duella 15 m. E Topacari, 9000 ft. Cochabambo Bolima SKEL. DULY
4171 ? Phyllotia wolffsohni
4172 & An. emserted in trops 2737140 × 31 × 25 ear 20 across.

2738140 × 31 × 25 ear 19 aure Ups. 4172 & Braings? 280 - 145 * 29 \$ 25 "21 " 575. 4173 of Phythothe wolfforhing 293×158×27×26"22" 4174 4 249×130×28 × 24 "19" 46g. 4175 8 270×123×28×23 "18" 4176 8 41773 " 244× 127×26×24 " 20" 529 leski 4 240 × 122 × 27,23 "201 430 · no ent, 4178 9 "

water 6

tasks 4

no but.

225 × 114 × 26 × 23 "20"

. • j •

O. P. PEARSON

4180 akodon

197 × 83 ×23 × 18 33 gm testa 3

5mi. W Comarapa, 7500ft, South Cry, Bolina

Sept-13

4187 & Myllethe wolffooling
4182 & "
4183 & "
4184 & "
4185 & Mirroryzongs
4186 & abrocom
4187 & Phyllethe wolffooling
4188 & abroton?
(SKULL ONLY
4199 & Phyllethe wolffooling
SKULL ONLY
4190

2637134×29×26 201 20 verom

2637134×29×26 201 20 verom

tests 3

236×121×28×25 "21" 50gm

tests 5

239×123×27×25 "20" 52gm

253×132×27×25 "21 51g tests 6

218×137×23×15

310×132×30×25 no end.

255 × 125 × 27 × 24 month. inforest

218 × 94 × 24 × 21

body exten. Buffy coller.

245 × 120 × 27 × = inforest

antesten. inserve.

248 × 126 × 28 × - inforest

Bully paler than 4181-4184 but with

buffy coller.

20 mi. E Totora, 9700ft, Cochobamba, Bolina

4192 & akodon 4193 & Oryzonep 4194 Tool 180×71×21×15 long snowt 166×75×21×15 testic q sv longe 192×116×25×15 testis 4 m pond at edge of cloud forest.

15 mi. ESE tiraque (Traque Chio gA.6.5), 19,50 oft; Cochabarro Bahim Sept. 15

rocha lebon rook + brush.

195 of Phyllotic vsilal?

230×124×25×20 earocon 17 39 pm.

brush, lower line. no erre

4196 f "
4197 8 "
4199 8 "
4199 9 "
"
4199 9 "

4200 4 "

225 × 124 × 24 × 20 " "17 31 gm 232 × 126 × 25 × 23 "20 33 gms. frush, lomer line tests; 4, 222 × 118 × 25 × 22 " 19 33 gms [205] × [101] × 25 × 27 " 17 31 gms. graves, repper line. no end. 252 × 133× 25 × 22 " 18 46 gms.



apperling, grace up sul-4201 Phylloti oxlas? 219 x120 ×24 x20 27 gm respecting grace 213×87×25×16 no enh.

upper hus, gran taski 5, 5 v met 4202 8 Opymycteris 4203 & abodon reflection, grows Packeted for Rinker [4204] 4 Phyllotin vailer? 215 × 119 × 25 × 20 em/5 over 26 gm Cochabamba, Bolina 10 mi. NE Kurata, 10,500ft. Sefet. 16 truff anto 1 4205 & Hespermyr 144×64×19×15 testy 5 230 × 124 × 26 × 20 cm 17 across 4206 of Phyllotic oslact 36g, traff anto 2 testes 4 223×122×26×20"17" 4217 \$ 32 gm trap site ? meml. 203×108×24×21"16" 25 gm. 4208 4 trap site 2 no ende 11 198x 105 x 24 x 21 "16" 4209 9 26 gm. trapate 2 molning 275 ×143×27×26 112211 4210 4 wolfsohm 65 pm. top arte 2 take 4m 4211 of 5KULL ONLY 4212 ? 42 pm. 232 x 12 Dx28 x25 112011 " osidal found dead, trop out 1. 8 mi. NE Punata, 10,000 ft, Cochalamba, Bolina Selet. 16 top site 3 2emb, rt. Loren 263 × 135 × 27 × 24 en 19 aux. 51 gm. 4213 & Gravings 224×114×27×24 "20" 49 gmm. traff site 3 4214 & Phythin wolfsohn trop out 3 por ent. 237×118×26×24 "20" 4215 4 " 55 gm. triparto 4, no end, 4216 £ " 235×120×26×24 "20" 41 gm. 40 mi. 5 Oruro, 12,000ft., Oruro, Boluna. 4217 or Mormosa 190x 107x14x21

204×109×25×25 en 18 aun ash 3

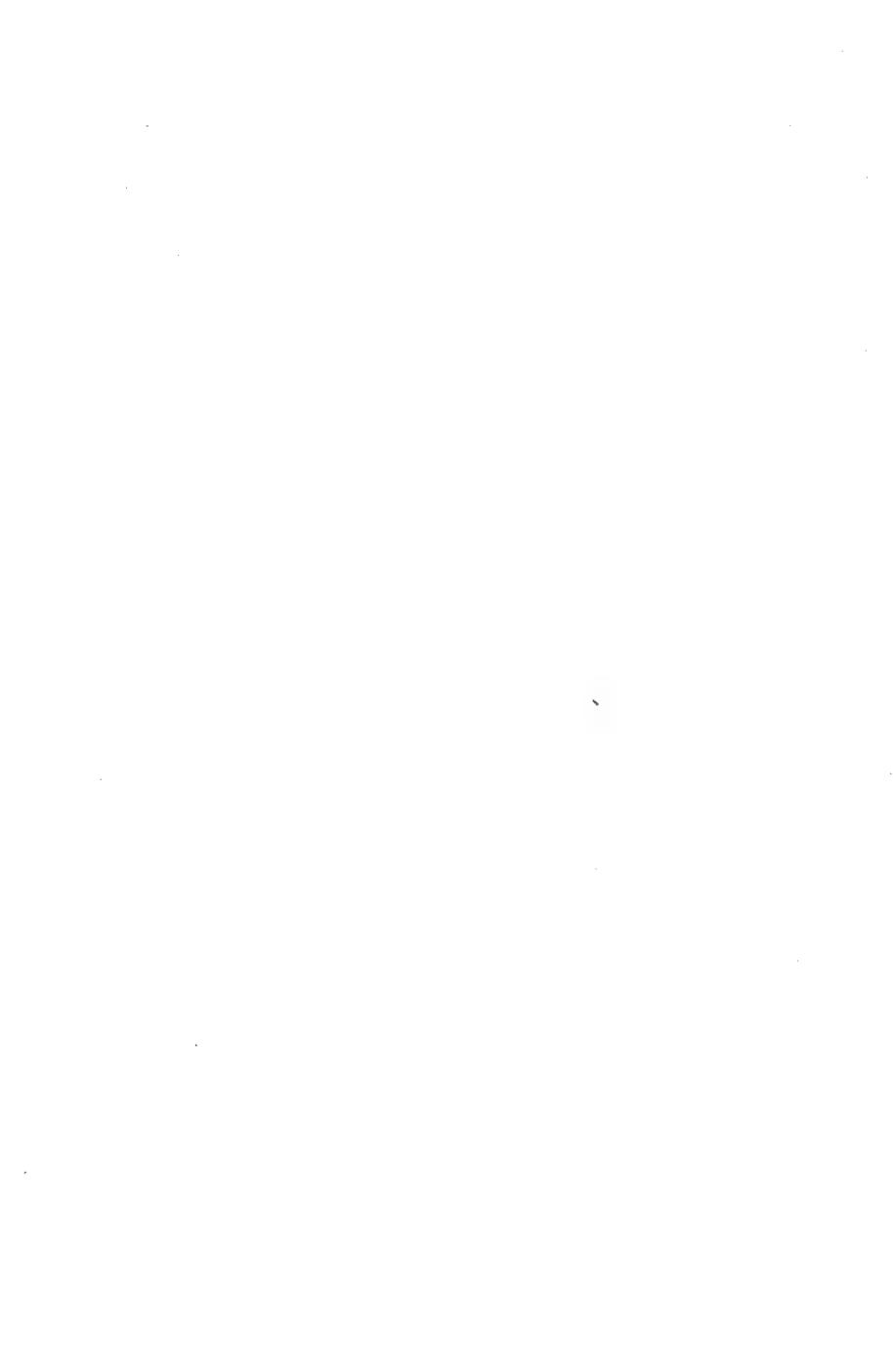
199×104×24×24 " 20 " my enl.

160×72×22×13 Cestro 4

4218 & Shyllotie darnimi

4220 & abodon boliverin

4219 4



D. P. PEARSON 1955

5mi. E. Vyuni, 13,000ft, Potosi, Bolima

Sept-20 tratis 9,50 large 208 × 108 × 24× 24 39 gm en 19 am testor 10 18" 4221 & Phyllotia darumi 208 ~ 115 × 24 × 23 4222 8 4223 8 215 × 115 × 24 × 25 332 "19" no end. 239 "21" 4224 8 203× 103×23×23 4225 9 200 × 104 × 23 × 25 Costu 8 4226 & Bolongs SKEL.ONLY 4227 & " 165×78×21×12 22 pm SVlary 153× 69× 21×14 26 gm. Potrai, Balinin 1 mi E. Uyun, 12,000ft; 155×70×22×18 17gm. 5Vmed 4228 8 Ehjirodouta 148×70×23×18 18 gm. 5Vmal. 4229 3 SKEL. ONLY 135 × 67×23×17 14 gum. With porusition 4230 € tette in for, but & speamen had been in portet with sorour of alone. Bette send for Leever. 4 mi. E. Vymi, 12, 600ft; Volore Bolinia 4231 & Phyllotis darmin 222×117×26×25 m 21 acm 389 take 9 2198 111 × 26 × 25 " 21 " 37.9 Take 6, 58 mile. 9 1898 98 × 24 × 23 " 19" 23.9 4232 8 4233 8 no sul, vogen labye.

189 × 98 24 × 24 "20" 24 g 4234 8 4235 0 196 × 105 > 25 × 25 "21" 225. Tests 7, 5 Vlarge. 151 × 65 × 21 × 14 " 4236 & Bolomys

30 mi. WNW Cotagaita, 11,000 ft, Potosi, Bolins

Selot 22, 1954

248 [123] × 31 × 24 sor 19 across. 4237 & Brownys

Juna, 20mi. SSE Tryling, 10,500ft, Polosi, Bolina

4238 9 Octoberlongs 4239 of Hesperomys

long longering, 2 burpent letthom 72 CL lett on, 323 × 150×37×25 no end. N., noch

152×78×20×17

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209 ×[105] × 28 × 24 m 19 ann. 4230 4 Granys. 232 * 130 × 27 × 24 "17 " 4231 8 Phyllotia dames 248 × 133 × 29 × 24 " 18" floor 4232/4 Grany 5 mi. N Villagon, 11, 500ft; Potosi Balina Lept. 26 testy 5, 5V small 4233 & Phyllotia 195 × 108 × 24 × 23 los 19 anos 189 × 94 × 24 × 23 " 20 " 4234 4 154 × 64× 21 × 13 4235 & Bolomys 155 × 75 × 23 × 19 Teatri 8 4236 3 Elymdonton -4237 8 Hesperomy 2 8000 130×52×15× 18 Cesty 6, 50 large Tilcara 7500 ft, Jujuy argentina when whilt, no ent. 4258 & Phyllotra com 245×123×27×25 Son 19 acras take 10 mm, 5 V wed-large 4209 8 251 * 133 × 28 ×24 " 19 " Centra 11mm, SV large. 249 × 133 × 27 × 25 " 19 " 4241 8 4241 9 Physloti der 8500 2 mi. E Televa, Forth. 4241 q Phyllotia darwin 220 x 114 x 25 x 26 las 19 avan 209 114× 25 × 25 " 21 .. 5 Ksull 4242 0 225 × 117 × 26 × 26 ° 21 " 4243 8 4244 8 212 × 105 × 24 × 25 " 19 " (est) 6 4245 7 207 × 110 × 25 × 24 195 × 104 × 24 × 23 "20" week 4246 9 179× 73×21× 14 tists 7, 50 mg. 4247 & akolon 201 × 108 × 24 × 23 lor 19 ans 4248 & Phyllotic dormin

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Theora, 8500 ft; July, argentina

4249 8 Phyllotia nogalaris !!! 2 4250 8 Phyllotic coffermen 42519 4252 4

+ SKEL. 4253 9 Rhylota svogalaria 4254 8 Phyllotia calpraise 4255 9 + SKEL 4 4256 4

testiall, suned - stormt but com 267 120x 28 x 26 las 21 across tota 11,50 med. 258 × 135 × 28 × 26 .. 19 mound. 241× 129×27×24 no ent. 214 × 116 × 27 × 24 " 20 "

260 × 118 × 28 × 24 ear 20 acrome tester 7,5 × small 245×131×27×25 "20" mo enl. 240×133×27×24 " 20" me em. 252 * 133 * 27 × 26 " 22"

Imi. W Loon, 5800 ft, Juzuy, ayentire

23/x 129x27x 21 en 18 acr 234× 130×27×22" 18 1 lestro 5 233× 124× 27× 21"/9" 216 × 118 > 25 × 22 " 18" 242 - 133 × 16 × 23 tests laye. 174 × 69 × 24× 16 lester 6, 5 Vana 147 × 75 × 18 × 14 tester 6, 5 vlay 25mi NE Villagon, 12,200ft, Poten, Bolina

4264 Frog. 4265 8 Phyllotis damin' 4266 4 4267 7 1 1 4269 9

Idea, arme, thighe shy fine with black. he mouse trafs 221 × 114 × 24 × 25 × 20 lar 20 min 209 × 110 × 25 × 24 × 11 202×106×24×24 " 19" 219×112×25×24



O. P. PEARSON 1955

4289 0

42900

5mi 5 Tarija, 6700ft, Tarija, Balinia SVsurl Cetto on 4269 8 Granys 258×132×29×26 lan 20 across. 4270 7 244 × 128 × 29 × 25 " 244×128×28×24 427/ 9 " noend. 240 × 125 × 27 × 24 " 19 " weeml. 4272 9 " 5 Varial 4273 8 297 * 152 × 71 × 25 "20 SV soll 4274 8 261×2127) × 28 -SKELETON 4275 9 " 270×[172]× 31× -193×85×25×18 Water 7,5 vmd. 4276 & akodun? 177 × 78 × 24 × 18 tester 6m 4277 8 " 4278 8 allermore 254 × 143 × 16 × 24 teatre 10m 10 mi NW Tarija, 8200ft, Tarija, Bolina 4279 of Phyllotia vilne? 217 x[116] x 23 x -4580 & Orhands 202 × 121 × 25 × 15 tester 42 133 × 49 × 17 × 12 42819 abodon 25 mi. 55 E Camatagui, 11,500ft, Tariya, Bolinia 4282 8 Phytothe mogolorin or ardinarys 272×126×28×25 00 grans 2 thety 10,50 hr 4283 8 28/x 132x29x24 4284 f 267 × 131× 29×24 669. went 4285 7 265×126×28×24 679. 4286 9 273 × 125 × 29 × 24 749. 261× 126× 29× 24 4287 692 237 × 129 × 26 × 24 4288 of Phyttotis darum

4291 A " 217× 112× 25×24 moremen "1" 235× 122× 25×26 (esty 4)

225 × 125 × 25 × 24 trong 4

228 × 121 × 25 × 29 lester 4

	,		

4294 3 "Physhotr darmin 4294 3 " " 4295 3 " " 4296 & Haspermys? 4297 4 Morroso

214×116×25×24 207×110×24×25 207×108×24×24 151×61×21×13 195×106×14×22

20 mi-55E Comatagin, 8500ft, Tarya

255×138×30×24 45m 264× 146 × 26 × 25 42 gm Vatio 5, 5 usual 247× 136 × 25 × 23 240 × 132 × 24 × 24 276 × 150 × 28 × - no en 235 x 132x 25 x 24 227 × 127 × 25 × 25 30g 229×124×242×24 3/5m 26 y 214×120×24×23 239 × 136 × 26 × 24 39 gm 36 ym 241 × 125 × 25 × 23 222×124×25×23 26 ju 31 p teats From 239 × 138 × 25 × 24 224 × 129 × 25 × 23 289 mo al 225 × 128 × 25 × 25 28g mull - taki 8 m 5 V such 265 × 151 × 26 × -2327133×25×24 232×129×25×-

238×131×25×25

O. P. PEARSON 1955

20 mi 55 E Canatagni, 8500ft, Tarija, Bolina

4317 & Phylote colore 222 × 125 × 25 × 23 29 gm 4318 9 234 × 125 × 24 × 24 testy 7, 5 Usual 4319 8 263 × 145 × 27 × 25 56 gm Caty 4m 4320 2 231 × 125 × 25 × 24 4721 & 204× 113 × 24×23 35 mens. 245 × 135 × 25 2 × 24 4722 9 39 grand 241×140×25×23 4323 8 36 gm Center 4 m 4324 8 236 × 131 × 25 × 25 SKULLONLY 220x [107] x 25×24 4325 8 SKULL ONLY & 251×138×25×24 SKULL ONLY 229×125×25×23 4327 8 Camargo, 8500ft., Changuiora, Bolina 34 gm went 226 × 128 × 26 × 23 ear 20 arms 4328 9 Phyllohe 39 gm testing 6 216 × [107] × 26 × 24 4329 8 "20 " 5Vand aster 7 268×146× 26× 24 4330 8 47 gm. Svand 20 mi. S Potosí, 12,300ft., Votosí, Bolina

Preballed for Dunker 213×109×26×24 33 pm 208×107×25×24 toponom to marietta voge 30 grus 223 x /22 x27 x 25 33 gm. Cestry 4 m 225 x 119 x 26 x 24 36 gm 30 game. 197 × 102 × 25 × 24 193×98×24×24 29 gm. no ent. 205×109×25×25

271×122×30×26

292× 133×28×25

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O. P. PEARSON

4341 & Cardwings
4341 & Phythote damin
4342 & abodon

- f andwings

- q

- Phythote damin

- q Phythote damin

Oct. 21

244×105×29×25 tester 13 221×1/2×25×25 no endr 149×65×20×14 no endr 270×128×29×27 28/×128×29×27 28/×128×29×25 27/×128×28×26. 216×1/4×25×24 193×[96]×24×23

10 mi. p. Canèle, pyst. Timm, vien

4343 Phyllotis amens startlonly Pulsyls.

4352

Inin W. Sureo, 6000/t, Defst of Line, Per

265 × 131 × 29 ×21

00.23

4344 & Phytotic amens 177×99×22×22 17 pm 172 ×102×22×22 19 gm ing 4345 5 2 ent. lep 183×103×22×22 20gm som 4746 / 4347 9 " 181 × 99 × 22 × 21 15 pm 1 water 6 summe 4348 8 11 andr 2254 126 × 264 2 3em 17am 33gm 228 × 123 × 26 × 22 " 18 " 31 gma, az 4349 6 lesty 12, 50 sunk. 4350 5 286 × 155 × 32 × 21 Imi. E. San Bartstone, 5200 ft., Delst of Ling Perm 02.23 302 x [120] × 33 × 24 /60 gm.

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		5	
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		, .	

zorate
Zorate, 9010ft; Rio 10 km. E, San Bartolono, Defet of Lina, New
oct. 27

4353 & Phylotia andrew 4354 & abodon 4355 8 "

212 × 115 × 24 × 23 testy 3 m 175 × 75 × 19 × 13 mo enl. 141 x 65 x 19 x 14 tests 6,50 mill

4356 of Phytotia andrum [243×138×28×25 haty 4m 218 × 112 × 24 × 22 sv malf 4357 8 woods & 210,109 × 26 × 23 tosty 3m 43580 (205 × 111 × 24 × 2 moent-4359 9 (216 ×120 × 25 × 23 testy 4~ 4360 0 4361 8 4362 7 4363 o abodon

bull 242 × 130 × 26 × 24 testy 4 ~ place 230 x 122 x 26 x 22 no ent. - x 65 x 19 x 13 lists 3 m

woods 198 × 110 × 24 × 23 testy 4 ~

4365 & Minery-orgzongs

4364 & Phyllotis andrum

(brush on edge of posture) 201x 122x 24x 15

4367 4 Zaratornis length 20, away 7 x 4 m, stoward with rel shortly of proposed by M. Kaffele. Eye red. length 20, away 7 x 4 m, stoward with rel februes (photoly Psitocomptus)

4768 7 Phyllotia

folial compo

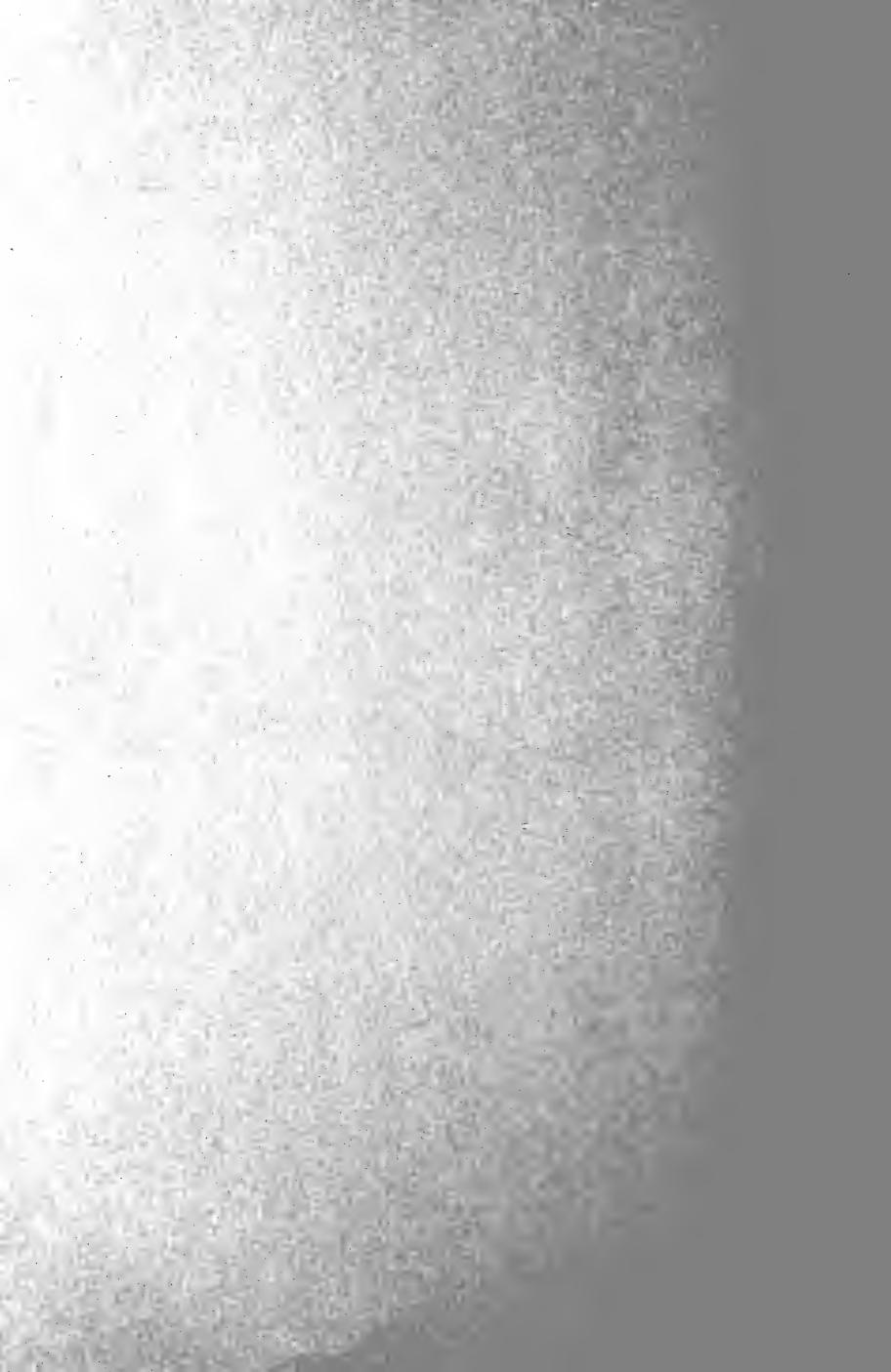
239×121×25×23 mound,

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Pearson, O. P. 1955

Journal

Paru, Bolivia and Argantina



0. P. PEARSON

Journal

Aug. 5

Chosea, Dett. of Luna, Pern about woon set 48 Lwaghel monse Type forted alternately with peaunt butter and wolumba. Kent-sized drofffings in 4 black and a fern smaller droffings elembere. The locality is Lund east of South Enlaba and about 400 ft higher than the town. trafes on southfacing slopes. Hill very welsy (grants) with big talna rivers, very little soil. Ceseus cactus, frezzy cylinder coetra, joint coetra, borrel caetra, torratues in floor and frint, a white-flowere fig-rike skink, a peur blooming and dried composition, and dry of his, saw byords, dover, hummer, finch?, grandoffers, wasfe, butterfly, forge droppe Photo LI. Jota of seeds around. after shoffing in Chosea, set 20 word Levelich mouse traps on a gravelly story hillsole across highway from the Maria RR station. Many sheeps droppings and numerous rat - sight droppings, Only regetation is Tillandra and a few crusty belone, Found some very old bones that work has useasta or chinebilla. The big droffings could be chinebilla.

ang.6

Swound at Mana station driffing wet and evoryh driggle to need widshill wifeer. Trap line a couple of hundred fleet above the rood was in a griggly back fog, as it was yesterday a m and when pocklybted there last night. Any Didn't see any nice or minima while jocklybting. One Phr. dorwin in these trape rear Tillandin.

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I-1 1mi. E. Santa Eulalia, 4,000 ft; looking up volley, aug. 5. cacture, towato, white jatropla, small compositer, dry grass. Lijards. Trapbire caught 5 Phyllotis darwini and 1 Ph- armions.



I-5. 4 mi. E. Chosica, 3500ft, south side of valley. ary. 12.

Fluted coctua, occasional woody shruha, few weeds; granite.

Traps carget & Phyllotis darwini.

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P. PEARSON



I-6. Rimor Valley, 4400ft, south side of valley, any 12.

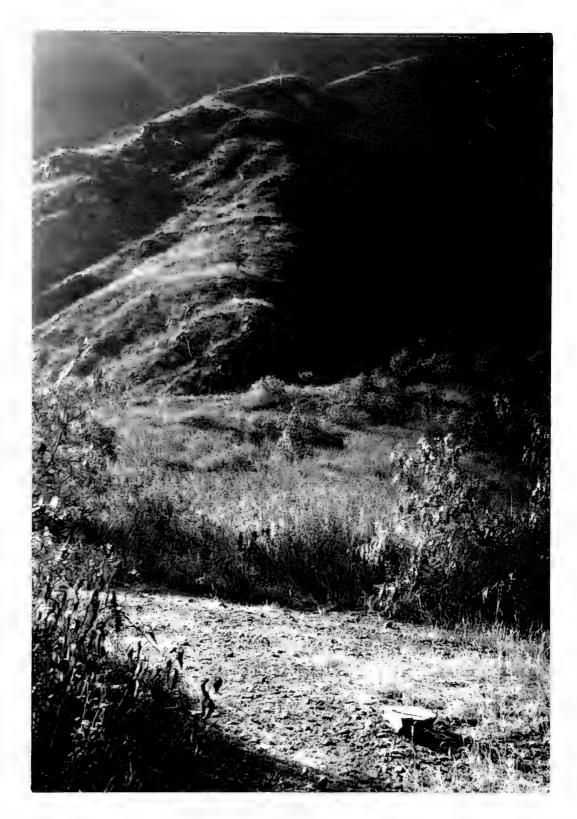
Trefs were set in distance among chumps of 6-foot-toll

6-fluted cacture. Pried weeds fairly their, mostly a 1 to 2 foot

"goldenrob; and dry grass about 8th tall. Caught 2 Mus and

12 Phyllotic, limature.



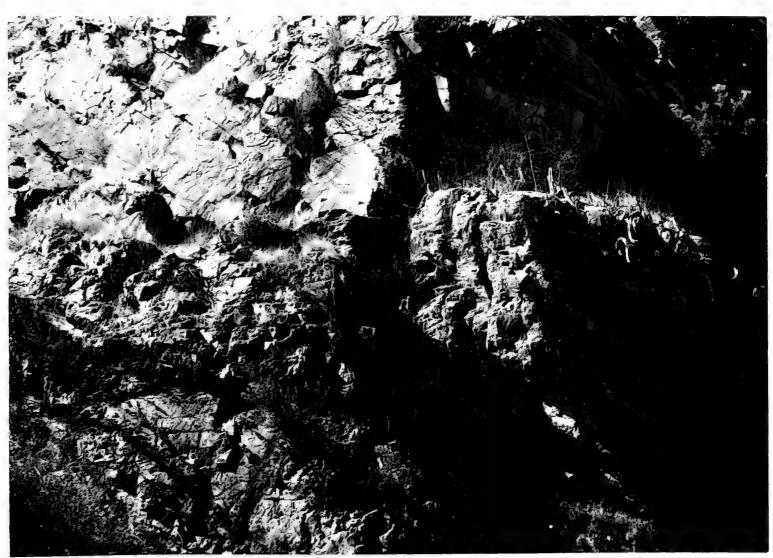


I-7 /mi. E. San Bartolomé Station, 5200 pt, south side of volley, aug. 12. Moblé, skruhe, and dence merde (dry), some head-high, many with stick-tight seeds. Some grass. Week works umawally rich following sumavally beauty rains. Traps ran from foreground up ridge. Oxygonys to abundant in foreground near moblé but nothing among weeds on the ridge.

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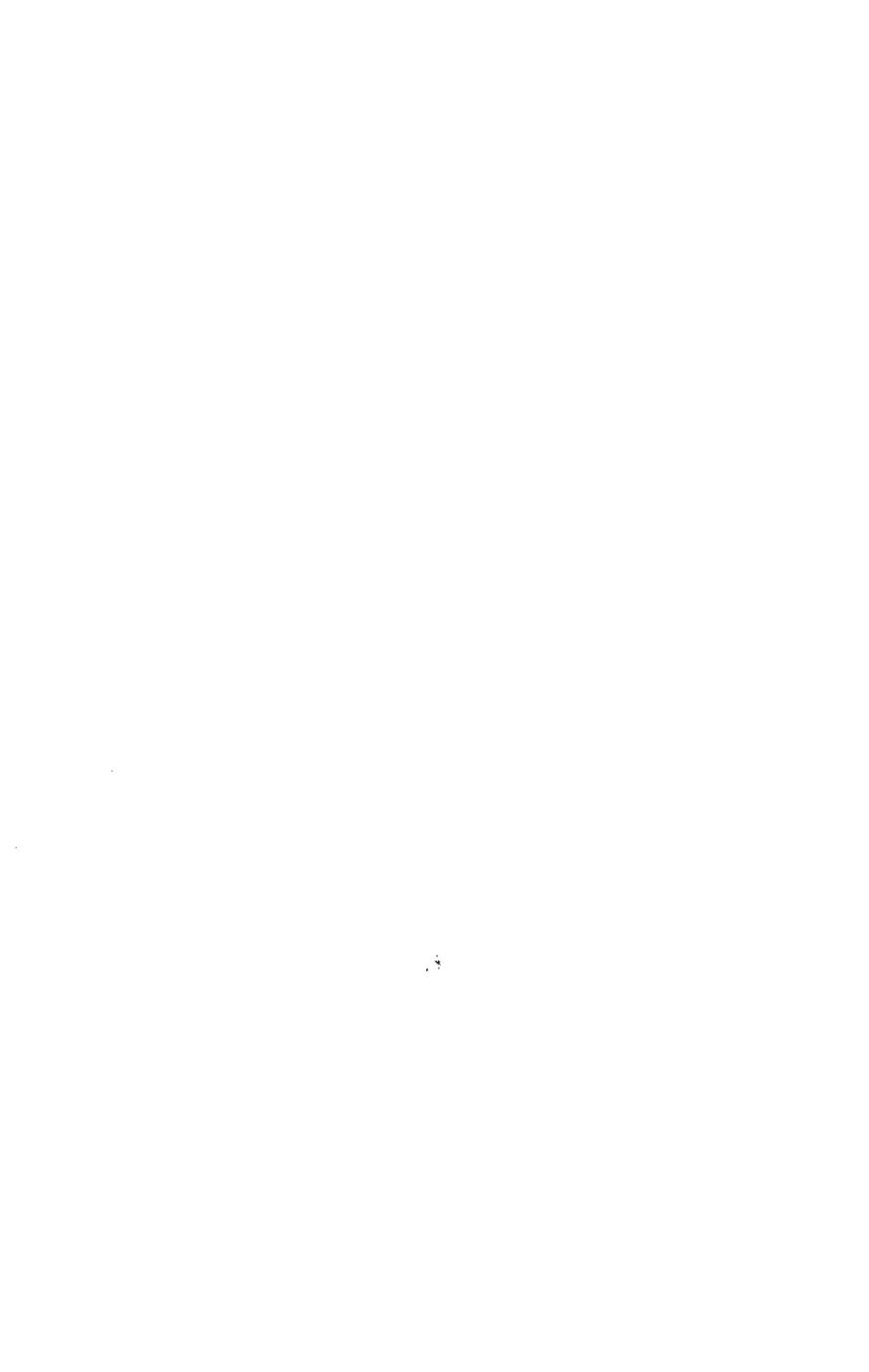
II-14 Imi. E. San Bartolomé Station, 5200ft, ang. 24. coetus, dry grun and welds, smallslinds, arrow shows breation of photo I-7. Whother 4046 Phyllytic darwin and 2 young were found dead on road at bottom of this cliff. Trafe set along legger such as the one below conget I Phyllotic darwin,

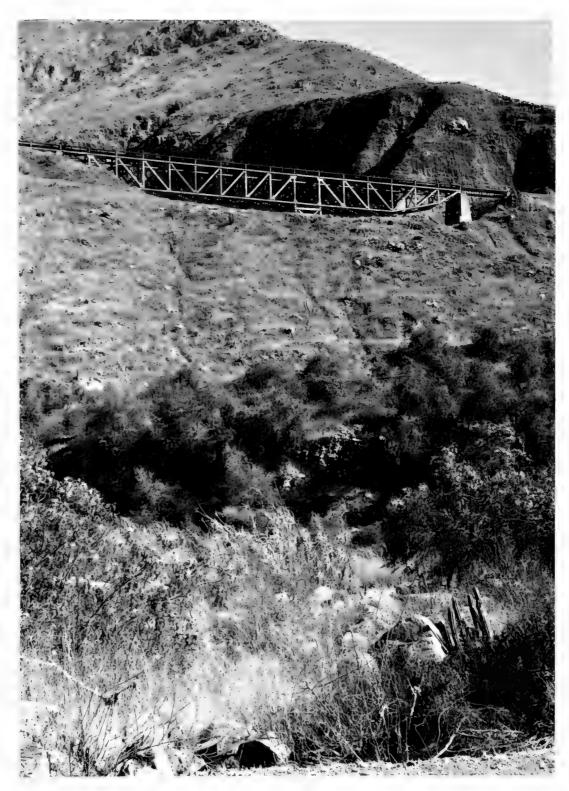


II-15. Detail of above.

1 Ph andrim, and I jun.

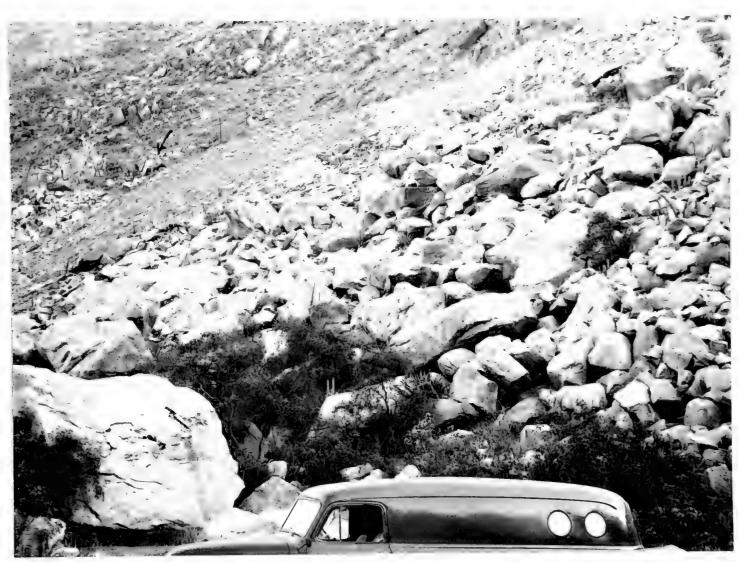
This is about 1 mi. W. Prente Carrion, shown in II-13.





II-13 Prente Carrison, 5800 pt., aug. 23, 1955. (foreground is about 5450 pt.)





I-27. 1 mi. W. Surco, 6000ft; south side of volley, Oct. 23.

across highway from Podge advertisement, arrow shows tank can on railrood.

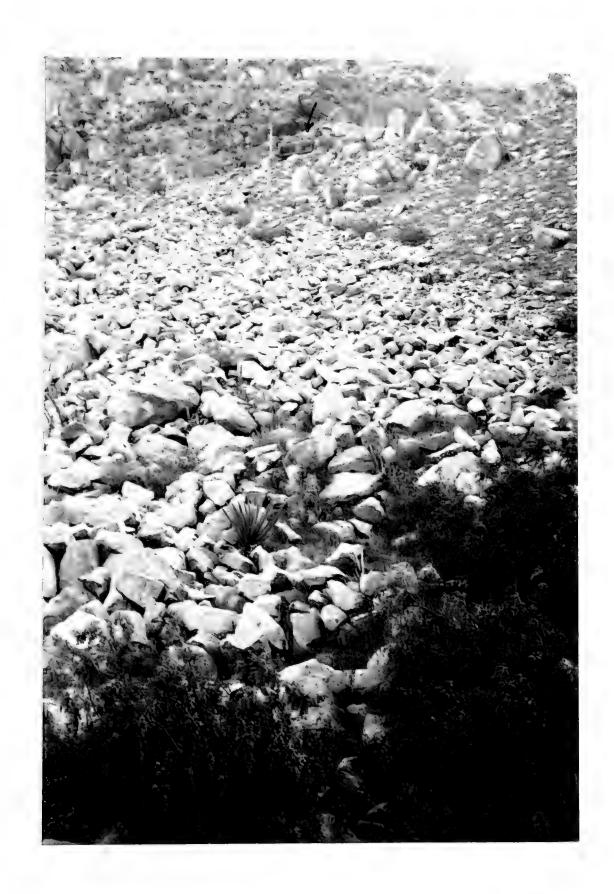
Brainte boulders. Schinos wolleat bottom, century plant, buyzy stick contras, a small yueca, weeds, and red-flowered ystropha.

Traps here on any. 24 caught 1 Drygonyz 5 Phyllotis amine, and 1 Ph. darwini.

Many sprung-empty on lower part of line, parobolly by Orysponys

many spring-entity on lower part of line, probably by Orygonys On Oct-24 1 Mms, 1 Orygonys, 3 Phyllotia andrium, and 6 Ph amieux, again many spring-empties.

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I-26. Legender in photo I-27 on paceding page

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P. PEARSON



I-3 1 mi. w. matricana, 6500 ft, south side of valley, ang of.

Semi-terrocced slope. Cactuses, weeks. Valley floor just below pieture had

moll and grain. Catch in photo 3 Phyllotic andime. mus and

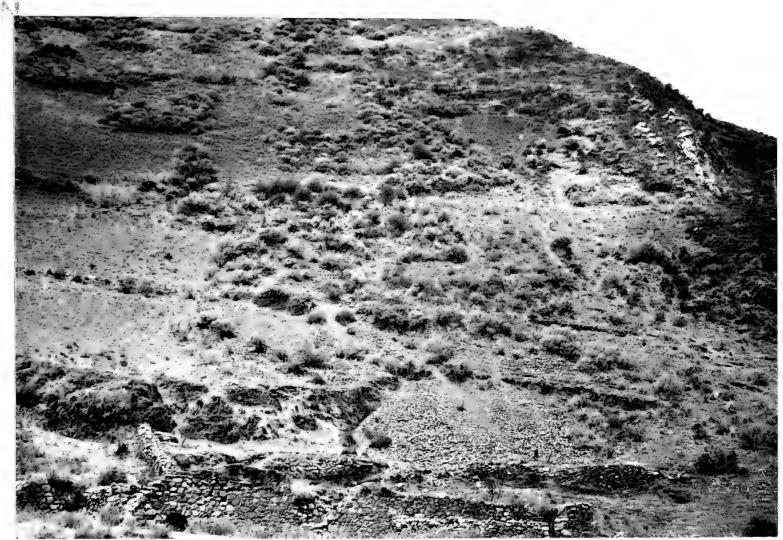
Organiza on valley floor. (auto sombero)



I-4 3 mi. E. Matricana, 8200 ft., south side of valley. ang. 11.
Dry wild outs and about 6 species of woody fushes 2-6 ft. tall.
no mile cought. marmosa and Phylletia and many caught in busher place nearby.



P. PEADSON



I-q. Villavista, 12, 200ft. (between Rolf land + Casafralca), aug. 13,
Stoney slope with bupine and other woody should 1-3 ft. tall. mo cartum.

Trafer here caught Hesperomys and 11 Phyllotis andrium.

Eurolyptine hore. South-from slope had briefgran + Backerie, inked more altiflation.

aborton cought along caustery will viar grave, pine it exparamys



I-10 3 mi. N Carbanago, 13, 500 ft, looking west arous parparof, John Junin, ang. 16. Mina wounds, Phone poll about 8 "draineter, Hesperomps and Pina Miners.

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Rocky-grown with much lufaine; some ? Senecio? This isthe upper limit of lufaine, North side of volley here has no lufaine.

Some cultivation on both side of volley. Trafes cought

7 and im, 5 postisolis, 2 Hesperomys, and I abodon jelobsici.

Ph and im and derwini postisolis in religious to trafes.

Lee photo 3 for 105ft. higher and nother of volly. Much

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Lohn, Senecio, Baccharis etc. Traps cought I Phyllotre darwini posteolis and 4 Hesperonys. Le fig. # 2 for wearby lettet with Ph. andmin.



P. PEARSON
1955



etc. Trape conglet Heapersonge, 14,000 ft, and 14. Buch grass, fleshy Sersio, Pyconshift,



South side of willing below carapoleo, about 13,000 ft. mostly lupine with some burebyrass. Motales here, but probably probably both Phyllotic darmin portions and the arising.



Bright sum when I got to the fauto Enlaba trapa at Ta. m. Probably no fog carber. Imog over Lina. These trops with 6 Ph. darwini Prove of the Caretera Central to San Bartolome and skinned. Hen put out about 60 Swedich mousetreps on a north forway slope 1 mi. E of San Bartolome. Habitat worth, weedy. Thorny minoson trace down on the valley floor, this weeds. Eventhe sleep softes guite weedy with only oceason coeture. Some of our, some of the dry weeds headhigh and many of them with other tight seeds, Some and the second of the second o med for in god a some in it is an only one set of differen a Done, from ill, human, august 7 For at Chroice and went, which last to a sull about the santa travely but - it much beginn, most other either spring or matgone (a ta). Will save to come took with figher lygs, about 3 p.m set = 55 Lwedish wouse traps between Bure not inclusion, and me me it y material this to the south growther and the term. jour cuty for to, Then the dether less true some wealythis. He weeks not as then as at son tartions, but the a tent was a for our wines

100 th 7

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P. PEARSON

the RR testle. Tespeare in somewhat barer

with lots of big cinings of cochina (by charge of
astrophysical like for contine is use but didn't see any,
a doubt woodposer in the or costine, soon a small many
poorwise, howevery for cother. In hy whe seem here
or at some Bartolonia.

Evening started out every at the ina, books

fogget to the out.

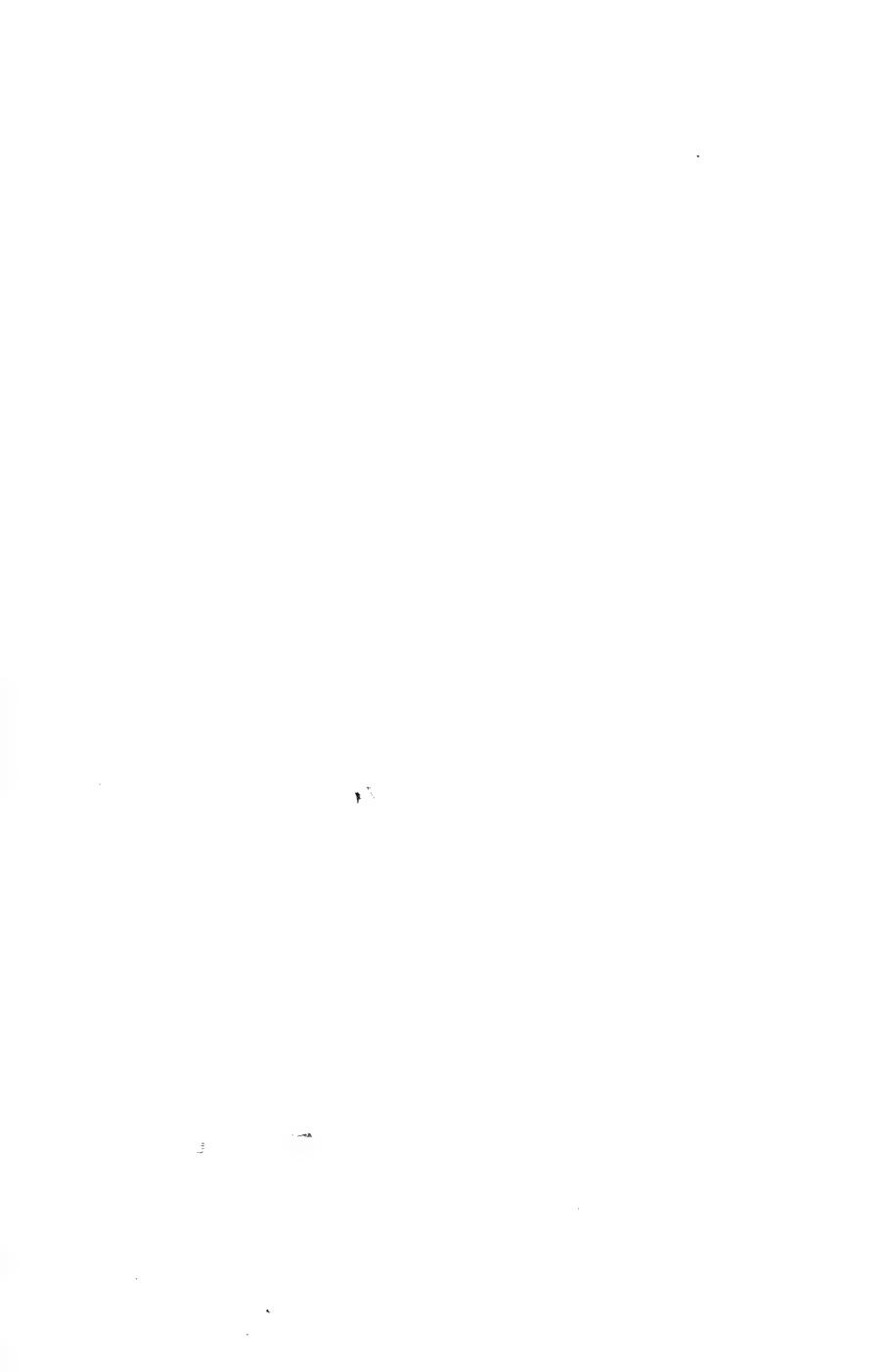
angy

At 3 mi. E of sand arthrone at 5:30 am found a dead latetung of Phyllotix on the wood and 2 minutines in the ditch a few feet away. It was at the tothour of a slight cliff. Tip of her time skim striffed off, we wind mans of cleath.

Treform coetus scope had 3 Phyllotis, not sure deinini or ardnin. Hay down trefor along stone wall of dy of perennal gras posture + there was keld one house mouse (not such) and one zuings ret (onymys)

any 10

Wednesday. Ketwied to Lina Morday & Treeday for battle with odvara. Equipment got in OK (for \$125) exect ammunition, which they counted bullet by bullet to 1223 and then witheld for perint. Sot the run around on perinte, so abardaned the ammo (when Koephe can get it out). Slept of Chasia, Foggy but cleared early.



a little Tollandia still at chosica. Then drawe to 3 mi. E Matroara, 8200, to suffer and set traffs.

Morth forcing slopes of narrow gorg; are und varta and woody bushes 2 to 6 feet tall, at last 6 species.

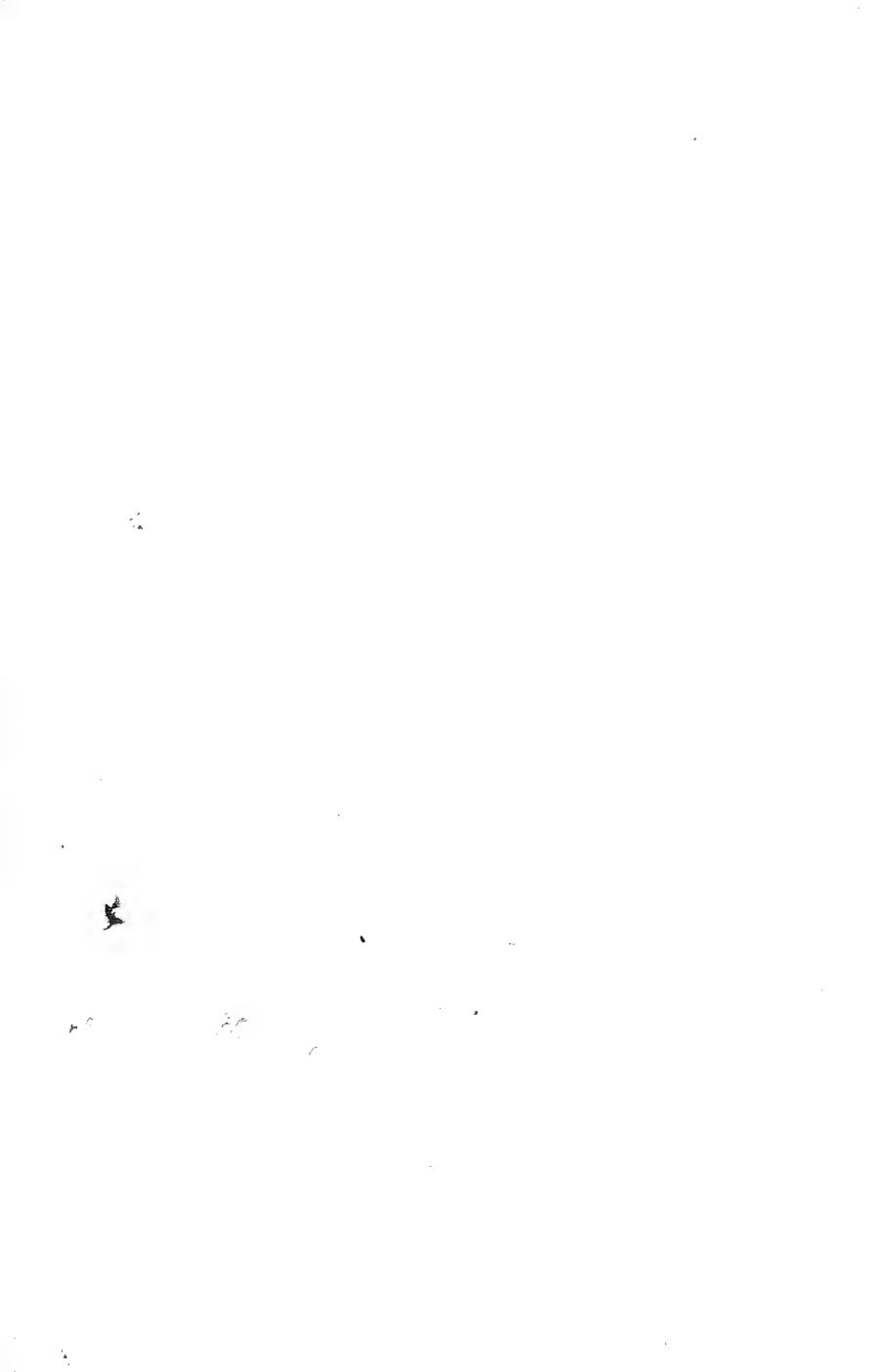
5- paing slopes wolk more altofolara with few bushes and some bursh grass. Let a bog of museum specials (com weal) among outs - bush plus some in some wind-covered stone mins. First blamas prodeing at Musica area (some as awas firing) about 8500 feet. Mot much cartur.

Son Mater, 9500 ft. Ratter brushy, not unlike wayster terain in southern Perus, Brushe's than the other him I mi. E Motreaux and with pewer will outs (more beauty grazed), [rood-binking course]

ang 11

The bower part of the 7200 ft. troff line in outs, scattered low shruby, and reales careflet I mormoso and I hungry -eared darwini - andwin (Ph. from 1 mi. w mathemara had bumpy ears too). The longer upper part of the line in outs, four weeks, sage, cought nothing.

The 9500 ft have in brushy places cought caught I absorder, I long tated Oryzonga, 7 Ph. andwin Shimed til moon then went downful too set trops. about a dozen at the zuning not place (1 mi. E San Bartolonie, 4800 ft), 5 th them with monse next bout. Then set a bog of Minseum Specials (com meal) at 4400 ft near a mine? right by the road.



The registation is 6-foot tall fluted pope coetur (6 fluter) every 100 feet or so, dried weeds farry thick, mostly a 1 to 2 foot goldenrod, and died grave about 8"till. This cover is almost as thele as a poor wheat field whot as tall weedy we I mi- E San Bartolome and without as many stebers. Story ground also set a short bog of traps arrowy the some kind of fluted coeture at 3500ft 3 mil East of chosico, but here among large granite boulders and differ, with few weeks, occasional woody throbes This seemed to be the most procted place to look for topotypes of hunatus . Fog come in of chosier about to a me ang 12 Foggy at 6 a.m. Trofes at 4 min. E Chosea, 3500ft. feld 8 bristers, all with dirty grey bellies, many with truncated tails. Tropes at 4400 ft away "gather is and

Foggy at 6 a m. Trafes at 4 mi. E Chosea, 3500ft, feld 8 binsters, all with dirty gray bolker, wary with truncated tails. Trafes at 4400 ft away "gather "and tig cother held 2 house wine and 12 limiture. Trafes at 1 min E San Bartelowie hood 2 mothers Zaniza rate and one body ester? Organys? Morning spring remptly as before. after skining drove up higher. Maximum brush seems to be about at San Matto, Campod at a willage a couple of wills NE of the town of Rio Bloves, elevation about 12,200 ft. This has bunk-gran, (who?) and Backaria, looking somewhat his attifland, the also everly fature and other trees, and some slopes with brush. Set one boy of trafes on a stoney slope among rather abundant lupine bushes (1-3 ft. tell)

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 and other bushes about some sige. no coeture. also about 20 traps along stone walk in grazed places. The lupine sometimes has woody stems

ang.13 Trophines bad 4 abordon (all along centery wall near grass), 7 Hespawnys (some at centery wall & same in lufaire) and 12 andrium (lolong cemetery, rest in lipine, especially

near talux or other rocks hole. a passing gentleman telle me this posto is Primacancho, an old spanish smeller; about a wind up the road is a Cero de Posco mine Villavisto, and 200 yarde domistran re a preblo, Chicla.

Often obsering done further of the hill. Tupine stops fairly at whit 13,000 ft, then burch grass Stopped at Imi. E Casapolea, 14,000ft, and set 2 bags of trops among brushy rass on gravelly stoney slopes, some by rocks. Joses has darwing churchillula country. lots of large filrows green droppings. Many bounds of attitions plants, but in small numbers: Distribia fleshy Sereio, thorny bush (Sereio or Margy vearpus), and typrophyllum. a few patcher of som about 200 ft higher

Sunday. Might clear, about -3 C, frings of ich on stream.
Traps carget 1 Meotornys, 3 Hesperomya, and 7 Ph. darwini Mostiobio, the latter by, gray, lowing told, not looking the and in a often string drove down to 12 mi. w of Casopolea, and set a short log of trops on steep worth-foring slope, rocky grassy with lots of lifering. This is the uppermost lopking.

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			3. 3.	

The south foring slope here is all brush grass, no before. among the before are some shruby, dissected before yellow-flowered "serverous". Jooks more both and morning than darwing, Much wormer here than at the 14,000 ft. camp, cultivation on both N and S slopes; very steep.

also put trafts at 1 mi. W Casafralia, 13,300ft. on a southfacing slope growing to ichn, the disseted leaf yellow-flowered

Bassero, and lesser grasses of forbs. The offer fouts of the
line bod some Baselonis (a south of 5-foot-light backer, feely
seriow, and was woody thoroughout with red Indon front buch
flowers. I think some as above Tarota Chrymison or Chrymison,
or something lists that. Enough inter so that oxide could
his leve

The offer of these two trus lines is where a mine aquodret carrying sludge crosses to wally by suspension bridge, and the lower line is just blow where the sludge is dumped in a site carryon

ang. 15 Might clear, ice at 13,300ft.

The opper trapline (1 min w carefuler, 13,300ft, ichn) caught only 4 thesperomys and 1 Ph darmin postralia. The lower trapline (1½ min w carefuler, 13,200ft, lupine) caught and in and postralia, 2 thesperomys, and 1 abodon jelskini, and invalin and postralia were in adjocant traps, but in general the postralia were in adjocant traps, but in general the postralia were often, the ardim more brushy.

Prove over the pass to Droya, then with tripped Cent of Passo. The pass, about 16,000 ft, is worth tourself.

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conder with scottled brunchegrass; about her the conceedore - Varies pass & Mountere is there tola, as in southern Pern. From Orayor worth is lush grassland, brunch and otherwise, much blue to accerde Pourmain. No tola, brush, or anything larger than the agrees.

Lood unfaved and rough all day exept a tarred stately from Orogen to the Tarma sturnoff. Set about 20 traps along otoms wall in gran.

ang. 16 Might clear + cold, heavy post. Water bushet in care frøge, mice wapped in neuspoker in car froze sold. Traps caught I Hesperomy and 5 Ph. pietine. Ithink I have found some mino mounds for In Scheffer. at to north end of Lolse Jum, 13,500ft, olast 2 mile p of Carhuanoy. They are on a pampa slopping apprecially westward toward to lake and are spored 6 to 12 yard opout, nove more ton 2 feet high, north bout I foot. Vegetation is low gran and pucha, not unble the Localoca two panga, with no vigitation hapen than 3 weles. Soud is very story with wells up to 8" drain. Kood out reveals a fine soil with rocks Its conglowers for it least first a feet down. This area of mounds cover letrea 1 and 4 years miles bonner around it but not in it. It is used for ground, and over parts of it parallel stripe of tury have bean removed for fuel, but I do not think the mounte are non-wode. I wolked through the area and som

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a few burrows of furly large love where present, all offering on the mounds, and one of their bed fresh mouse droppings. Passed a sunday but less infressive area somewhere south of Carburangers as a babutat for Ph. Jarmini (puttest north), carburances tooks infromising but there are some roday butterfus east of the town. In general the termine is sunday to the flat but country west of Titreson.

Shout 4 mile: No Carbinamayor on a flot painta is another set of mina mounde larger and more disturb than the others. about 1 in 20 of there has a hard size burrow in the side, wany showing pesh draying. There are a few burrows in between mounds, but not wany towners, there are similar burrows of on, the hillards where there are no mino mounds. Two burrows showing fresh draying also had feather and a wooly bird's vest lying on the ground at the feering; probably consporting draying out huro miners.

dropping out know movers.

Vest out about 15 museum specials and b jumps type in burrows in ming mounds. Also about 25 museum specials along a wall upon the hillaidle-gran and small Churigna busher (about 1-2 jest tall, thorny, vol blossonish

Charigna busher (about 1-2 jest tall, thorny, ved blossowale Joelehophting among the ming wounds should nothing. about 2 well of snow onemight. Mo trake in and out of mina purrous before 6 a.m. except 1 mouse. Traks in

burrows had I Hisperomys. another set of mouse tracks Oak

ang. 17

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Tollowed about 50 yarde erded under a 10-und stone, not on a mina mound, and there was a Hesperomys in a grass rest. He was guit tours. Trofos along mall cought 3 Ph putue and 1 Hesperomys. after about 6 a.m. the niner birds started foffing in and out of the mina burrows, as well as the burrers up on the help de. San commed that they are the principal occupants of the mina burrows, a schoolmastery bolang posserby said the mina would were the result of growth of a certain plant with ed he seeds that the indians used to use, but that the plant has been gone about several other sets of mino wounds appear between Municipa and Cerro de Misco, with perhaps the bygest of all at the Canta Curroff, Wherever there were muna mounds, the wood cut showed an upper loger about 10 miles dely of stony sort, underland by a loyer of almost four stones, most

Took the eastern rood from Cearo de Paseo down toward

Huariaca. The rood gree down a stell caryon with many
ruins of old Spanish mining activities. Twent down to about

12,500ft, where a smallboy sord it was about 6 km. further

to Hvarioso. The steep caryon sites become rother bush
bruch grass, then, unitart a brushy zone, are was trees

appear. Anema (or something similar) and grass. Between

13,000 and 12,500 appear also everly other and a walnut-bolding.



the around houser, Some cultistion at 13,000 ft, and at 12,500 legining to be be be finite formuch. Stoffeed at a side road to minime at 13,000 ft in a H vargue - the garge. Floor is good green ground try, sides dense bunch gran. a few small patches and traces of bush. at 12,500 it was certainly too temperate for posticolis, and here may not be brushy everyly for ardium.

Put about 15 trops in the a wedy-buthfatch vear the steam, about holf a bag under boulders etc. on dense burshyrun hellaids, and another half bag up a steep varrow chute groing to grave & sphagum. This locality shall be known as 10 mi. NE Cerro dellareo,

ang. 18 Trops held 10 abodon, I long-tated anyrough, 2 Mestings, I always gelslain, and I Hesperomore. No Phyllotia! While pilaing up the trops I realized that there was no have ground - here no Phyllotia.

Drove down the compose to below Hurinea when the other Cerro do Pasco road comes in, at about 12,000 ft the are many kinds of trees and buther, a few orelia plante seen, and regetable garden with college, letture, owner, flux geramma and roses although some bushy areas, considerable grass cover. By therein, however, things are dryer again, with certain plants on the wolls, and flew brush. Especially titureen there and the other road (10,500 ft. 1) there are brushy at heliable with ofeen stoney ground in between looks good for

n Prince Park

ardining In this carryon, however, (his Hvallagor),
and in and darmin untile well reparated by a worst
grassy zone between about 12,000 and 13,500 pt.

Campballe who the carryon of the thir Tingo. This
one is wider, more grazed, looking drier, but still with
a grossy zone to reparate darwin and and in. The

problem is, why doesn't arduin go further south at about the (v, vvojt level (or dolent?). Hvarrier bole

just the along, andahugher, etc., Darmin such gres further worth along the condition west of cerro.

They are planting and cultivating everlything in the region of the various. Much is being cut for mine timbers. The premor true follow along the steam bank rather closely. The hypest ones in the the Tingo valley were 13,000 ft.

althor class: hills soy cerro - 14,500 ft.

reedle rocks to Hurley. Took a way turn here and went up a mine know to over 15,400 ft, then had to earne book to H valley and up the after road. Overtaken by dorkeren at 15,000 ft, so pulled off into grass for forty. The low-fork of grass fourpose that they graze afforman on in southern Hern they dig for fred here. They cut stabs about 1 ft + 2 ft & 3 miles, like sood, at this camping flore done Hurley the slabs are mostly yaretor with a little Distribia and grass impedies. a faithy dried slab 10 x 20 x 3 index felt guite highet and

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weighed 4 lbs. There are a few pillows of yoreta here, but mostly sheets of it perhaps 50 ft. square covering a whole slope. One such area had had some turge removed and man growing back mostly to yourto.

ang 19 camping flow by doglight (above Hvolley, 15,000ft) turns out to be a bound with rocky cliff beoderall and nie little stream coming out of Phistolia. also dwarf gran and youts. No bunch grans. Sou one winoclos in the cliffs (my first over this trip), afair of fichers (numerally high for them), and two coracoras spent the night on a rock ledge. Should can froze in core but not water can. The youth feels and sounds bollow as you walk across it early in

Sounds bollow as you walk across it early in
the work from Healthy to Vinda, gover for several
hours arow dway gran typeta country above 14,000 ft.
Protially no brush grans such as ichn. Come at 15,000,
Only at the highest places we there open ground - brush gran
Who Triumte country. Most all the way cooked holes
dandy Viena country, but sow none. This owner,
flamings coot, terms, minery books t what place; gint
attiplaraish. On the west side after the summet
burch gran affected. Then a some a zone where
a fleshy dereaso was quite comme (14-15,000), then a
zone about 14,000 where these was guite a bit of tolo.

First butture affected at 13,400.

First Infline appeared at 13,400. Stopped at the eastern outstants of what Pthinks will be

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Son Brownston. Stophillades, varon valley, many stonewalle, hillaid crumbling arrows and rock outerope, the walls with low bushes of wany sorts welvering a couple of scroggly lypines, tooks his archim habitet, but hope to get magister One but flying at duck. a few tree gount coeties; such grazing by cours, burrows, Broker welled Backaria, Serofshulari-(calcoloris) a directed-leaf Leveris, nettle. Put out one log of trops just before dark. Everlyfetus bere in the town. any 20. Sat, broke prediced only 2 mee, longish tailed big Hespermy Bry human (Patogonia?) seen and another smaller book humany at the crock of down, Jarge coarse stick next in one of the tree fourt coetuses may be coetus unen, but have reither seen ver heard any. Colder south-facing slope just below here has good rich lufting. Ford yokel (town Culling) says allitros is 11, 900 ft. about 2 miles below the tour the rooded and stramside has considerable thorn husles with laverder flowers, about 6 ft-tall Took another wrong term and ended at Huaros, but near there executed some wel stone wall - bush habitat remuserent of magister bolitat above Tarata. 12,000 ft. List before, calceolaria, and other bushes, many unto showing flowers and humagheds. Let half a boy of trops It won. Took a couple of hours because of small boys, people working in the fields, ite Then drove down the Canta rook about 15 kelometers and set a half log among huge bouldline + busher (Backers + others) and joint caches. Then drowl

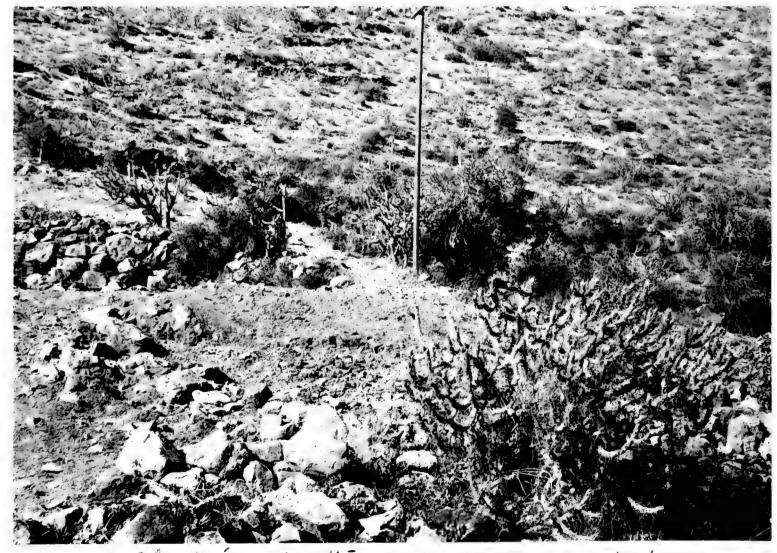
up to the river below Hvoror and set among stones

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AILSON



II-9 Hvaros, 12,000ft. ary. 21. Lush engine, calcerario, and other bushes, Traps cought 7 Hespromps and 2 Phyllotin and in



II-10 Below Hvaros, 11,500ft. aug. 21. Ph. wdvim, H Mersmyr

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P. PEARSON 1955



II-11 3 mi. W. H waros, 11,300ft, aug. 20. thege boulders, bushes (Bacchins and others), and joint cacture. Traps cought lakedon, 1 microary jumps, and 2 Phyllotic and in

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and brush in two places. I has walke 't
trap lines, some of them in subsections, essentially
all among rocks of bushes, It yest regetation is
the tree point coetus (up to 10 pt.), but some of the other
bushes reach almost that buy when sufferted by one
of these coetuses. Four no drappings while betting,
was most frustrating trying to set and paring that
huas being wateled.

Evenue some those are trout in the river, but especially in the lakes buter ups. Tred 4 places along the river with a springer, but no liter.

dry 21

Surdy. Cotch at H varas, 12,000 ft, ? I Heafernings and ?

Phyllotra andmin?. At Below Hurrer, 11,500: 4 Heafernings,

1 Orgzonys (miro), 1 Phyllotis andmin, and 2 Orgzonys??.

At 3min. W Hurrer, 11, 300 pt; 1 abodon, 1 Orgzonys (Amiro),

and 7 Ph andmin - ottindo clash at 5 pm: Conta read 9 800, shows 9 9200.

Per from acegina spray at Hurrers,

derwini

REVIEW OF SPECIMENS: In Raise Valley have brusters from Main,

2000 ft. to 3 min. E Son Bartolonio, #700 ft. (P.O.R.). Mo sign of

intergradations to I have and min from 1 min. W Matheora, 6500 ft.,

up to 1½ min. W Carofielea 13,200 ft where it is sympatric unth

d. posticulis. This is the lowest postialis. Must have more

between #800 ft. and 6500 ft. to bring limiture and and in

together. In Canta Valley, have and my so for from 12,000,

11,500, and 11,300.

Drove about a wide west of canta and porked in a Vin the road. Set a short boy of trops along voious store walks lived with weeds and brush. a few century plants. Me continue The state of the s

Mark Control

PEARSON

Canta bas corn + llamar and the tall beans ,

1 mi. W Canta, It, Delst of Lina, Pern

ang. 22 Trafer cought 2 Marmoso, & Hesperomps, and 2 big old male Ph. andm. Paraheeto Leve. [Later som z large flocher of parrote. The original over monghouse her parrots, but probley porolants.]

Drove down the Chillon bolley. Much like Kning.

There are some big willows about 2 ft or more in

draw. here that I don't remember in Kninge. alw,

it is my impression that as one comes down the

Chillon the zones are higher. Vegetation at 4000 ft, in

to thrive is at 5000 in the Chillon. During a traffic the - of (hard on collision on a curve) at 7000 pt, I tried fishing, a 10 inch rambon trout on first cast, two other strikes. Stofffed in the Tillousdia zone. Just before durk put out almost 2 books of smem specols among the rocks + Tallandin about 200 st above the road. Found only one set of Jesh viscocho? drofffings and But a steet traf there, but no good burow. Some Tillenadia of both species in boom. Of the smaller flavier, some plante that look him they have been backed off the path have a fosh-lothing Kowering stell with Booms, Soma condon only 50 ft above the ground at 5:45 bedring west. also a boch bette unt long probosing a sperder, and several "dotter" wolks everyng from the Tillando at dush.

Fog bork gathered downstrain at 6 and in some
side valleys, but base it hit here yet (7:45) Found

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a fox or dog dropping conting monse jaw, mell of on hill. Vest joelsbytting among Tillandsin at 8:30 but som nothing exelpt one pour will.

clammy. Fog bouch mails down the valley. Trap live of alward 2 bogs of carefully placed trafes (swodnesd only orangemine) one mouse, a young thandray of thinks. Mo links some while

running trafes at 7 a.m., no viscochas.

There are midely nottled progrents of human? have and protein on the slope, and a few obviously exacted graves. One east-foring slope besides Tillandia had late of small trifts of branched excelsion believe. This brothy to be 2 min. E. Chocar, 2000 ft, Chillon Volley, Defet of June.

For future reference there is good tillandoir long at kin 32 on Canta Road. Right by road, off-to-road company place, 3 or 4 species of Tillandia, many small shells, but som no manche drologings.

often passing through Lina drone up to Imin w Surco, 6000 ft. (Dodge hillboord) and set trofis in a stook of hugo grante chules blasted out of the realized about. Vegetation which the volley teel, Century plant, fuggy stick contin, a small year, and weeds, and the red found brofless "fig". Then drove down to Imin. E. San Bartolonie, 5200 ft, and set trops on the step cliff above the place when found the Phylotisq and young DOR. It is a few hundred yourse east of the zwinger rat trop line in the weeds. It is also about I mi. It of the former Printe Commin.

So these two tops haves strobble brents Carrons

Then returned to Main for the night and set about holy a boy of trops at the station. Untile last night, most of this Tellanderio is the beggest land - but sparser. However, sprearth tops of the held found what books like 2 viscola burous, and set steel trops there as well as 1 other sould traff in a not-so-good place. Outs affect worth them too early so that a divinal least would base time to get cought in the norming. For lower down the valley, but rone at Matanget (7:15). 13 woon row. I toggy at 8:30 pm a como borapole (old) upsty the viscola burous. singuiste that boal hunters had been upsthere.

anget Cleansh at 6 a.m. efcefft for damp moty omobie (attern plant burning season), but for cause in about 7 a.m. Mothing in Main trop line, but while running it som a viscochon nearing steel trops and short of him but missed, while cleding one of the trops later he doeled ant of a hole 6 feet away from me and enough. Seft 5 steel trops there, wild cat squaded on root at Prente Carroin.

The trop line up on the cliff at I min. E. Sun Bertolone, 5200 ft., cought bline for the cliff at I min. E. Sun Bertolone, 5200 ft., cought blinding, I and in, and I gun fully limation.

The line at I min. W Sureo, 600W/t, cought (Jun. Zunga rut, the first foregrant and in. Seleine. Several of these pregnant, the first foregrant and in. Seleine. Several of these pregnant, the first foregrant and in. Seleine. Several trops on the lower Part of

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1955

this line springt impety. Then drove butte to Line for greare job, sufflier, and veus of Kahn, ang 26 FRI Apart the night of Maria and in the fog at 6:30 a.m. pulsed up the steel trops I had left for viscochar. nothing in them. But discovered a Minorin Special that that mused before, and with a live limiture must! Back to Lina because the owner papers for truck weren't ready yesterday. Went to unserm and saw more Koffle speumens, weliding from west slofses in vorbern Vern, a porcupure, an antester, and a skunk not wood four. also lay and also a try crat-enting obsumbs from the coast. Then maited to anthopology under and finally got my owners papers at 6 from Drone to Chosen for suffer and for the night, Of the hel. Opossum squashed on rood at 7 500 ft (maticara). ang. 27 Highest Schinos tree was 8700 ft., but search before them, and nove at my 300 ft. byfring pace. according to Kaffar the other common valley trees are Solet, access, and thorny algorrobo (Krosofssis?). Stoffed for hunch at the Knothento ardina in Morococha with Dr. Hurtado, Dr. Tubo Velagnez, and Hermann Rahm, then to between Oronga and Janga for the my let, Raining. Tried the Ro Manteroin 3 places for fish but no butlan a little ne overnight. a deary morning of builts golds ad washboards. Level probably somewhere was Far Mujorada between Hvarage and agocacho at 10,000 ft. (The Humayo

23 Land Control of the Control of th



II-17 Rio Mantaro, 8500 ft., loveing pestion. aug. 29

Dry short gues, Schiros trees, coetus, bromsbods.

25 mi. NW Prients alcomachay. Trops cought 2 bory tills

Hesperongs, 2 ahodon:, and 2 Phyllotic

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Page 1					
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(faufor is about 11,000), at 10,500 and lower there is lots of bush, sometimes donce enough to the colled dafrard. Sehwas is abundant, Scotel brown, and a large variety of zerofshipte dust-contred shinks. and in the ofternoon followed the boo Mantero downstream still yet and staffed for the night at 8500ft. Knows of driving and 3 hours of syntalling and feture talking I seem to have combred about 120 miles and shiffed about 20 the of dust. The brush gets even byger between 10,500 and 8,500 and m places could be called attorn forest. Selvar 15 ft. til and a foot or more though the trumb; an even larger tree with willow - who leaves and red wood; a thorn tree; and numerous should and coets such as big offunta, saguaro, yout coelus, and century plants. Put out a bog of trops along a stone wall of a pasture unto dry short gran, by Jehnor tress (15/t), by opento tress (15 feet), and assorbet smaller weeds + coctus. Walnut trees, at least around houses, Mong of the

cacti and trees with bromebods.

Roming trafes at 8 and 9 p.m. and hop Orygonya or abodon and 2 Phyllotia !!!

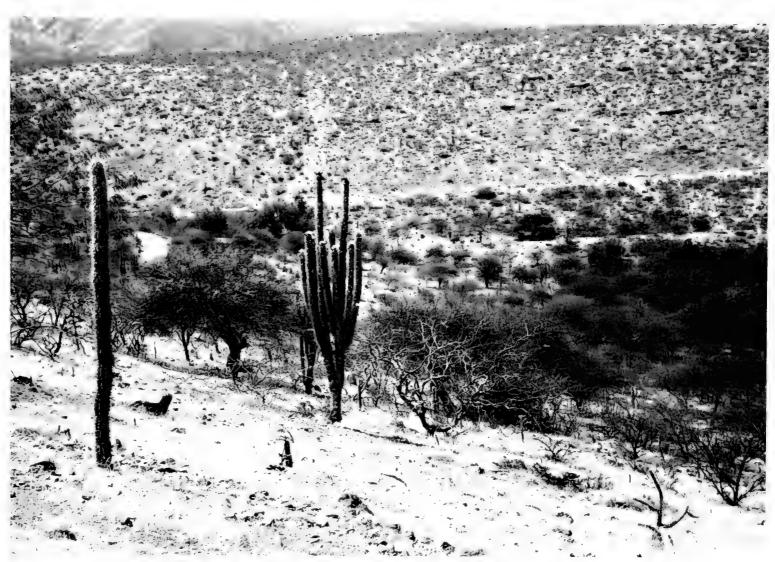
ang.29

Morning overast, temp at 6:30 13°C. Tolal catch in treps 2 Phyllotis sp., 2 long-taled thesperomys, and 2 abodon or orgyong. There are pour to here, and a hige swift-like hummybood with a single "peep" note and with wingleste much slower than the smaller worth american species. Freds on opention blossoms.

Bover + moura of the mice were puils - from eating



PEARSON



II-20 Men Prente alcomochay, 75 voft, ang. 29 Loquaro,



II-18 Schinar, and thorn bodlands. Motraffery here.

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coetres funta? cochineal? I trace 20 km by rood to a willage arean and 53 km by road to the Prients alcomachay. Call t 25 mi. NW Prients Olemachay. The brente is about 7500 ft. and the road drops to about 7300 It. before starting up the valley to agourlo. Stortly below my traps sugar and offered, and later, bananas + olarges. In general it was a day of Sekrose, coetus and thou semb; good country, Drove for 5 to 6 hours and stoffed 2 miles of ayacucho, 9500 ft. Some bodlards shortly after barry the Mantara. fut out 12 logs of traps in rocking offuntia, your coeturs, sogl (a z-foot bush unth upright willow-bles banks, no thomas. The ground so very stoney-growlly with some shortgrave (not burch), grazed by goats! 3 Phyllotis and I Hespervinge in Hales, drawy bouts rolled by crebets, There are costra menshere. Clear breast. Long 3 to 6 clear poper followed by a slightly descending lough. The first votes are sometimes grated or tribled above around the road posses though a slightly bushy zone (looks hto Backeria) then opens out into lush ichn. Chinter to about 13,700 ft. Looked in voin for holtoprocta and wenns with just hepre the road drops of toward Roo Parafra when I saw 2 small bands of venion (short-grass painfra and some burchgrass, 13,500) and 1 Mothofsweter. The verior would be less than 10 miles worth of prients

Pampas, Then endles zigzogs down into



P. PEARSON 1958 the Schwis and coetus. First Schinas at 10,500 ft. Some real trees in the gulleys noon this attitude, but lower down borowas the river is ± 6900 ft, with real thorn forest along to edges. The road infort of the law lainfear to Chirelens is down a densely brushy south foring slofte with greensword etc, most ofthe frish being Sehvis and Swotch from. The opposite north foring slope is drer, borer, in lower part has large leafles trees dropped with appoint work The ichi country between against and the Painton is juite sporsely populated. Munerous stephends unt sheep, come, + horses, but few homes, possibly because of bittle water, no llawas! The rehn bolis dandy for the oselal. at 2:30 I sow the road drop off toward the run and had to deade whether to compor wake a run for it. Decided to try to get down and refitte other side, but no Phytotix - booking places offered before Chineberos, and alove churcherax it got dark, with the continual row of houses along the root, Campel along rook myle 20 muntes alone Chuckerys , no trops out. Right about where Viennas and teramon appeared, fourths become much more abundants Sam more hig Soulisin half how there han on rest of trys. Fast night in the goat brush zinter from agreents, I could bear the low fidelity public address



syptem, the /4 br. bells, and the various eddeposted bougings necessary to life in a Permon town. Tought, full woon away the small forms of the Churberon Volly, a dozen or more dogsare bonking and a flute and drummer are accompanying a boutine in he country and of a swall form down below, the white-enabled adabe storts organist the dork hella

ary. 31 The rood from Chuckeron to Tolavera - andahrayloa goes of unto when country with shelp, come, horses, no lawas. Saw or viennas or transon. Then down again into the Encolyfothe at Talavera 9200 ft. Appent a couple of hours in tolower tolking butule and wanting for the bight to be right for the shot. Thenet clouded of just before the right time. The three town Tolonera, and shortingenic and I are all photogenic and only a few beloweters of not, The latter has a playa that is colossol, but sun was down before I got there. Drone of out of the valley into the relie at 12,800 ft,

Self. 1

and set trops among boulders by Joelshight at & p.m. Only I alsodon bolimensis; not sough. (emp. at 6 a.m. -4 C. Then across ichn highlands and down down to above, lust with magnificent soon-coffed protes and deep rolly dong the way. Then up again into relin and colosed were of cloud-drafted Soleantay and Cordillera Blanco. Then down again towards thro aprirunce. Compet at 8000ft. among 10-foot busher of Lehmon, thorn, offuntry,

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PEARCON 1955

> ete and fent out half a log of hopes, tall moon. Soft 2 3 Hesperangs in tropes. Then down to Prente Cunyoe at 6200 ft. Between 7000 and and a few hundred feet above the runer perhaps 6500 It passed not a single house. This serably zone seems to be title who ged enelet by your, etc. Passenger from Prents Cuyor to Cryca; his rodator bod hem smoshed in colhsion night before. Then off ogain and drone until afterdark, crossed La Roya Vais (14,200 pt) by monty to, good ichn country, and camped at Santa Rosa (de agaviri), 12,800 ft, in ich. Put out a little wore than half a log of traffer along a good stone wall. Temps. + 5. Drove like wood from 6 a. in to 9 pm, with about an hour out for skining and an hour for Whotografity. Covered from an hour north of the los appurmoe to Soute loso. Want to make Juliaco before the post office closes for the weekend Trafts tod 2 stradeless osilas. Mothera pysing all around arried Julia obout 10:30 a.m. Spent day claring up, Sept. 4 Sunoar Provo. Compet near Stane on Tacon rood.
>
> Sighting + thunder in evening
>
> Sept 5 about on who of snow only st and some rain. couldn't get out of my compain place la ourse of mud, so worte litters for an hour or two worting for sum, then it started to soon again so blok to get to north and brill a road (2 hours) to get both to

to highway", then ame photography in a small finely



P. PEARSON

then of to Bolivia, Mine (q) control stations between Rune + Desogradero, avid Desogradero a little often 6 pm; the border shute at 6. On top of this they tell me I am looking some paper forthetrick and this is available only in Puro 100 miles of washlowd and 10 goddam country stations book! On top of this the control stations close what 6, so I won't get to Puro in trine to get any businessedone to warrow. Spt at Ponoto control station.

Sept 6. allday in Prino. Customs agent Oresta Bravio took 15,000 sols deposit as gravanted on return of truck to ferm. Then off with French Fullbight scholar; spent the night between Porrata & Juli.

Sept.7

Off to the borderat 6 a.m. Took 3 hours to get though the afficiend on the Bolivian side, then four word to Viola, where we arrived at 3/2 m. 150 km in 9 has. Some good when between Desognotion and Viola, but mostly beauty grayed and much cuthinted. Left Seli near Viola, then drove about 20 km toward Oruso and stoffped for the might on ofsen rolling fourfra, mostly cultivated, the rest beauty graped. Storay, More unused. I chn closely crafted and Bacebaria about Twice tall, Stones glathered into heafs. Some Margy vior for thorn bushelso, and a little aushow non fuggy caeture.

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The every cold (about +4"), wordy-blustery. West altiplant weather. Partly downly. Seft. 8 Heavy frest, -2°c, the mie in the trafes white from fost, The strictly less than 2 longs of trops caught 1 abouton, 2 Ph sultiment, and 4 Ph. Armint. Mil were cought only at stone lande a foot or more deep, preferably zor 3 feet deep; not at along the windrows of stones pulled only a few stones deep, and not away from stone plea. The by supliming (possibly Galerongs) was caught late because he was able himp and unfasted. 20 miles 5 Lakay, 13,000ft. after the frost bod bear removed and the specimens drad, there seem to be: 4 th. darwini, I Heafermys dwellor, 1 Ph. sublime or Galerouge, and 1 Mine untl a bobbed tool. This is my first record of Mins from the altifolium of It was certainlying good altoplant company, & mile from nearest hut. Stomed etc. until woon, then drawn toward Ormon. Good unposed road. Which of the way was a mitting of told treber somewhat ble Parific Tities, or has Valley of the selected of Santa Rosa but Cola here shorter. Both Lifestyllum grodrangulare and rydum present Parsed one set of twee-tree drawings at about kin 100 (about believery between Sa Vayings at about kin 100 mo), but som and beard no twees. Some holes / slugged gofster-bles. Stoffed at 4 pm on a rolling furth- gran and tola pampa. Ichn and a coarser bund gran with a few stater of nothern grass without tola, almost all the tolais quadrangulars, but consolerable thorn bush Margynessers mixed in, plus a few Ephedry and cushion coeture. No



storenalle or bouldles or other shelter for long-tailse Phyllotiser, but som one mouse (alsodon?) white setting trefts. Sharply evoling intermittent stream. Effected to first transure, but saw & leard woul. Many flebers around, som 2 copulations Sept. 9 E Light front, 12 bogs of type bod 3 afrodom bolinenis and I Heafternys duella. Heard Mothura; shot duck. Drone to Orwo. Tolo disoppears before Ormo and one crosses a flat solly? parofin. Som one hand of vicinos on this pampo, Isha dogging of two or armollo in one place + Meanthe ourfort about 2 mile east of ormor is a half-mile slufs ritalled with two diggings. By earth wounde, no sign of territories. While watching them I lead some guttwa sounds, but no bubblings when twalked fort across the area. Shot one (4166). Only regulation aday 2 mich n The root to Cocholombo church of into tola - rehn something blue Trucopoleo, then rehm, then a Festiven-blee burch of row, then ofpen ground with duron Joshe and grasses plus a few rehm. A few small yarda books. a pass at 14,500 ft. Comped in rather offen when at 14,000 ft. and set I bog of traps in the only ormlable racky place and along an abandoned sand. Sam abrocom? proppings. Not much agriculture near ornero, but planing + planting at about the 13,000 ft. level The Bolivian villeges seem almost deserted

compared to Pern; per people. Monthe result of Chaco war?

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IV-16 20 mi. 5. La Pag, 13,000ft, bolding south, Sefet . 8. Fallow fields with scattered heaps of stones, dome ich, 8- wich Backaris, and margyrisospens. Traps cought 1 abodon, 2 Phyllotia sublime, and 4 Ph darwini, but only at the bayer stone-falls.



IV-17 15 mi E Tapocari, 9000 ft, Sept. 11. Thom such and coeture.

8" pipeline. Traps hod 17 , 8 Phylletia wolffsohni, and .

1 Gravnys. Guiner Ligs son



1955



TV-18. 5 mi.w. Cowardon, 7500ft. Selst. 13. Trap line along stone outerates along the vidae. Very windy. Bushes, grave, ferns, many socialente, orchide. Traps cought, abrocomo, adodou, and 5 Phyllotis wolffrobin.



IV-19. 5 mi W. Comarafra, 7500ft. Sefet. 13. Patch of cloud forest. Fire trops fare cought 1 2 Phyllotia wolffsohm, and 2 spring-empty.



10-2015 mi. ESE Tiragre, 10,500ft, Selft. 15. Where queins and final meet furthquar. Trafes here as well ar brokeness arrong greens -grass and etil higher in serve grass with bother terms only in be of roche. Cought 6 abodon bolimonsis, 1 Otympetime, and 7 Phyllotic oxilas. Junes soig drafflings



Boulder seide aucromded by 6-foot Bacharis-blee bushes. Burch-grans + greener whant 50 feet away from the rocks where I Phyllotic oschar was caught.





II-22 8 mi. NE Purata, 10,000 ft, trap site 3, Sept- 16

Boulder-stream stope; caeture, several kinda of thom bushes, Epokadra,
millow-beafed bush, a few Bacchani, spring-leaped princeffeld, no brundgram.
Traps cought 3 Phystothia wolffrohin and 1 Bravings.
This is was been. 50 on corbabarah - Santa Cruz rood. Definitely "good country" in contrast to 10 mi NE Purata, 10,500 ft, which is altiplano and where the wolffoodin and the oxide were ling together.

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PEARSON 1955



IV-23 Tim. NE Privata, 10,000 pt; trapate 4, dept. 16.
Vegetation about as in photo IV-22 on previous page. 1.4 km
from trap site 3. Caught 2 Phyllotis welfsohing.

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IV-24 40mi. 5 Orwo, 12,000 ft. Sept. 17. Story billaido with 1-2 ft. Backeria + ichn, Traps conglit 5 akodon bolivanin, 1 morrosa, 2 Phythsta darmin.

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IV-25. 5 mi. E. Vyuni, 13,000 ft, Sept. 19,
Continser, appeals, various tola, a few dumps of ich.
Mote Dama for sign scale. Traps had 5 Balonys and
5 Phyllotis damini. many spring + empty, probably
from Otodontomy.



IV-27 2 mi. E. Tilcara, 8500ft, Seft. 30.

Coctom about 5ft tall. "Pillow pineafffele," low operation, sagraro, short grass, tola, sphala and a few ichu. Ododoutongs droffpings. Trype caught 1 cakodon and 7 Phyllotis darwini.



PEARSON 1955



IV-29. Tileara, 7000ft. Left. 30. Brush and trees at edge of alfalfa field. Habitat of Phyllotic and



IV-29 afforcito, about 9000ft. Looking east across alfarcito soguero, short tola, buston, from the Garganta del Diablo above Teleara. stoke walls, gruss, pillow pinespale, cultivated fields, willows and walls or algarrator along the stream

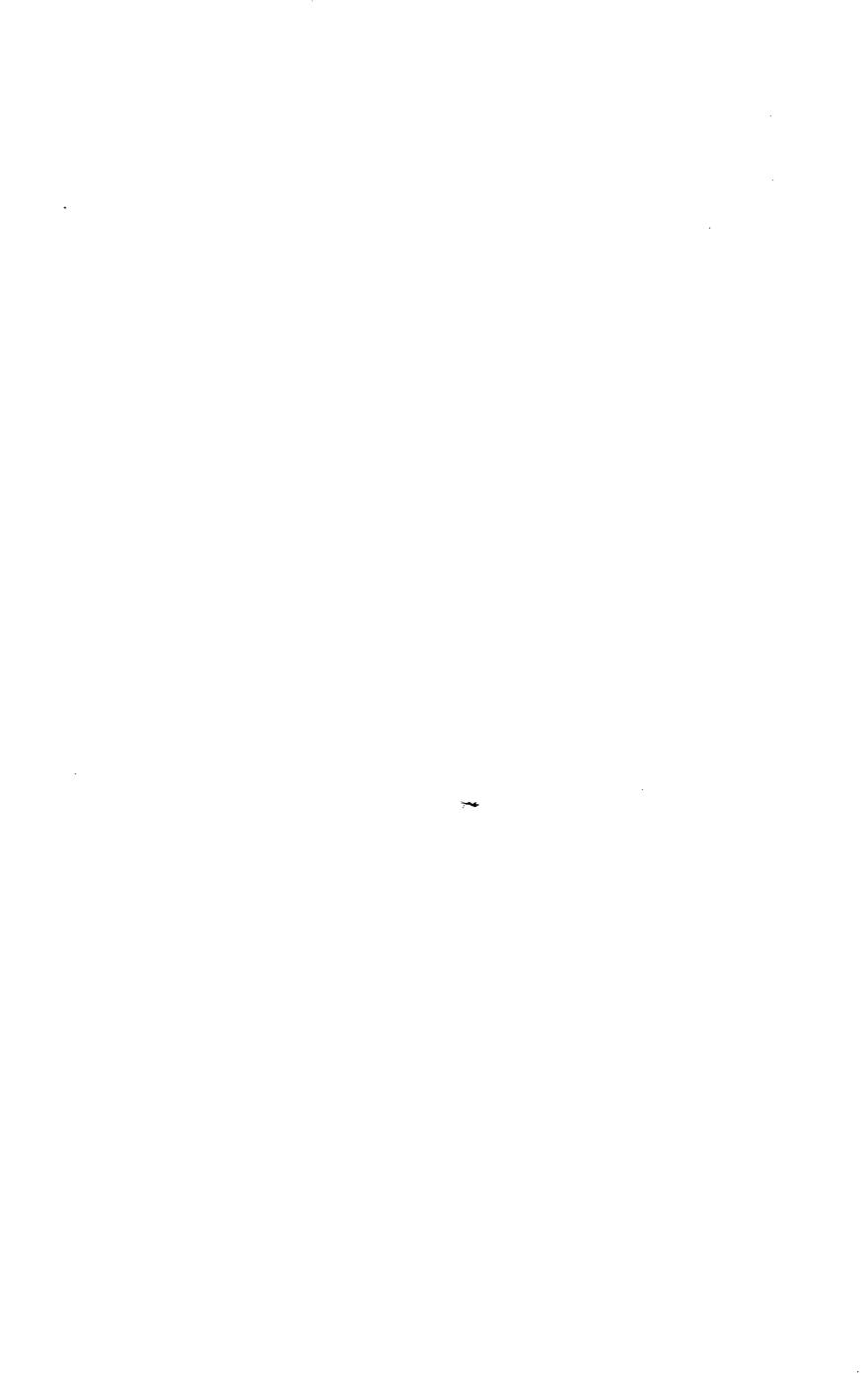
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Rom trops at 8 km and had several Ph sublimis and one abodon to hivereis.

Sept. 10 Light frost. Temp - 2°. Trops bod 13 Ph sublimis, 4 about bolimensis, and 3 Hesperomys durales. a copting sublimine got out of his cope and drowned in the water bruket. Untertil Damas ledded down on the hillings.

ME Ormer, Ormer,

at 13,500 ft. near the armor Cochalamba Lorder started to see nothopevety in uch . That 3 and saw 6 other in a few runtes. It of von-breeding and a 14 grown f. also som a flying flock of 5 hvallature, the first for weeks. No byards. a little sast of the orun-Cocks border started sieing after guine fris dans the rood and althe way down to 9001 ft for the draffings Athought were walken. They may account for the draffings Athought were abrocano, the road rouses much country that looks OK for vewer, but saw none. Finally drifts off on east sol, first through a good friend zone at 12,000 ft, then becomes brushy and thorn semb with Lehvins and numerous springs and trees were to we had drops down to the Taparan River at about 8500ft (Everlyfother, orange, coma brown). Deadled to go up to tapoears, the wolfsohni type beatity, which try soid was 6 leagues upstream. The rood goes straight up to men bed, which is 150 gds wide border strewn, with to stream about 25ft wide. It started to rim and with no earope from the river bed and miserable root that fords the Steam ayour tagoin, often 6 km. I decided to come back



down and Brone book of the Orno rood to 9000 ft in thom serve, and after or few more showers set trafer. a little over 1 bag on 6 short lives, all in thorn semb, some carture hight clar, warmish The pipe-line camps.

"I morning clar. Trafer had 17 abordon, 8 Ph. wolfsohin, and

If I'morning clear. Trafes had 17 abordon, 8 Ph. wolfsohni, and 's Sraonys; the latter hardly dretriguishable from the ", but with a curious species of bourse? fastered around the lifes.

The coetus were here is a big one with plushy white bands on toul and wing. Long in the parts -

Bock down at the river (Topocari) at 8500/t som a large Lerd of larger - amount from, oranger, cano brown etc.

Two loborisms efforts to find some good tripping submiles of conformation perdend in energy the groves. Seemed job for truck in morning, then left for Convarapa at 9:30 am, on the Santa Cruzg road. First 30 inthe gloriously paned. One is torn between going fast and going show two modes it last, Road gives through burly country and referred burly race thom (Many, majors?) at 11,700ft about 70 km out, and even pure burly race folia some cultivations. It glist about 12,000 ft. a good queries your at about 4600 ft, espendly about km. 130, but later the altitude becomes cloud forest. Mover to move forest as one off provides Conserver, wen a couple of some mills. The road goes along a ridge between the Rio Chila (not) part as for an the eye can see, and solid up to the altitude. Tothe worth the forest is pately, interspecial with brush t cultivation. Clord forest rich at 7210 and 9500 ft., even bomboo and trie forms.



and ponds and sedy grass and offboynum, all remuneent of Tres Cruck and above amarbamba. Stoffed at 5 p.m. 5 mi. W Cowardson, 7500 ft. Vegetation here is brushy with patcher of cloud forest, and the Conarafia valley looks similar Islus more cultivation. Con see a few small flats down below with tree coches, but no good they lotie country. Let about I bog of trapo along a vage with rock outerfre plus bushes, grass, and many sweenlents, plue a few orchide (not slowing) and ferme about a dozen of there trapes in cloud forest (not not), the past several unle have been extrendy undy. Teffeeted to und to the down at dusk, but it a still blustry bounding, rocking the truck, pushing you off bolonce when you are out in it. It well probably flow bout off some trape, if not blow away wholetrap, It alutat books poor for Phylloting wo much ground cover and few burrows , Might clear & musty. Sept. 13 WE. Trys dod letter than expected. The short boy along the brushy succeedent rogg unth sparse rock outerofer cought 5 kh welfsohing I abodon; and I abrocoma. Fine traffer in a pocket of cloud forest cought 2 the wiff, and one by abodon: and the other 2 trips spring empty. This is an epsilslyte patch of cloud forest in a Vin the rad, diff on one sale, fruged along the rood with 10- foot tobacco mut dampor wet at this savon, but definition forest with 50-foot Trees 2- JA DBH. These Phyllotic definitely in woods. a lot of clearing of forest is going on and largone on in the past, conorapa is not in forest, but it is surrounded by large problem and may once have been forested.



Catching abrocomo on this brushy-orelidy ridge only a few hundred yords from cloud forest mokes it easier to understand abrocom oblation at Marchin Richin (in grover).

Went down into Conarafra for gar. Forgot to take athtrolo but it offered to be 500 to 1000 ft bown than my samp, which was 7500 ft. The wolffording here definitely darker that but to foreare. It still very a son, but slowing about 10 a.m.,

Drove up to hill to the summit where cloud forest is dankest on the ridge where all is forest to the north or northeast. Coursped ainstat poteler of cloud forest, soft brush gran meadown, pords, and a little back brush. Even small patcher of trees only 20 feet axous are noss "conveduntle bote of sphoegram, orchide, fuchaire etc. Around in many places with lyrosportion, vaccining, etc. One food bod a term on It and 2 corseaves stalling through the grass at the edge. alternate sum and patcher of fog blowing past from the north. Put out 2 loops of trops on 6 short trapped lives forest, grass, bush, ruck ship from road. Hope to see how woodsy and loopy wolfshiri will get and ord to the sines of darkspeaments.

Totora, 9700ft; Cochabamba.

Sept. 14

Morning attervately cloudy t foggy; feltlihe Mains show tropping weather. Severs third to push Phyllotia tor for into the cloud prest, cought none. Only 3 dark abordon, 1 Organizations?, and 1 Organizations?, and 1 Organizations? and 1 Organizations of felt early towards Confabranta and drawe until wow. Stopped at a place where queins and brush meets bunch grave, where I hope to get both oxilar and wolffahi. Let two bogs of trops,



.

the lower fort of the hore in queino-grass with a singles of other should and a spring-before small principle. Ruch outerpre and stone retaining walls. In the upper fourt of the line only grain and grows and finally pure grass with only in less of rock outerfore. This is a fine bunch grass, not soil inline, and there is little bore ground becomes of a grassy covering and the property Palues of grains bork, which have blown guite a distinct from the trees. Although at lower treps 10, 400 pt., repper over about 200 pt or more brigher. Focation unknown, probably son Tiraps chia. Henry clouds pouring over the hills to the east only a few wills from bee (the focat fuent through), but still swang here (4:30 pm).

5 pt 15 This camp 15 min. ESE Tirague, 10,500 pt. [Tirague Chia g A 65 mp] 197.

Dear but clear. Treps imong borders below the rood in buch, 6-fort Bowlows like brush with only a Little grass cargital vailed, buch gran-queron whom 5 o peet away. The lower, brooky part of the other line

port cought 1 Oppmysterie, 4 osdal, and 4 ahodon. Hence, no wolfsohni, and osalal living in more brush than Provid have

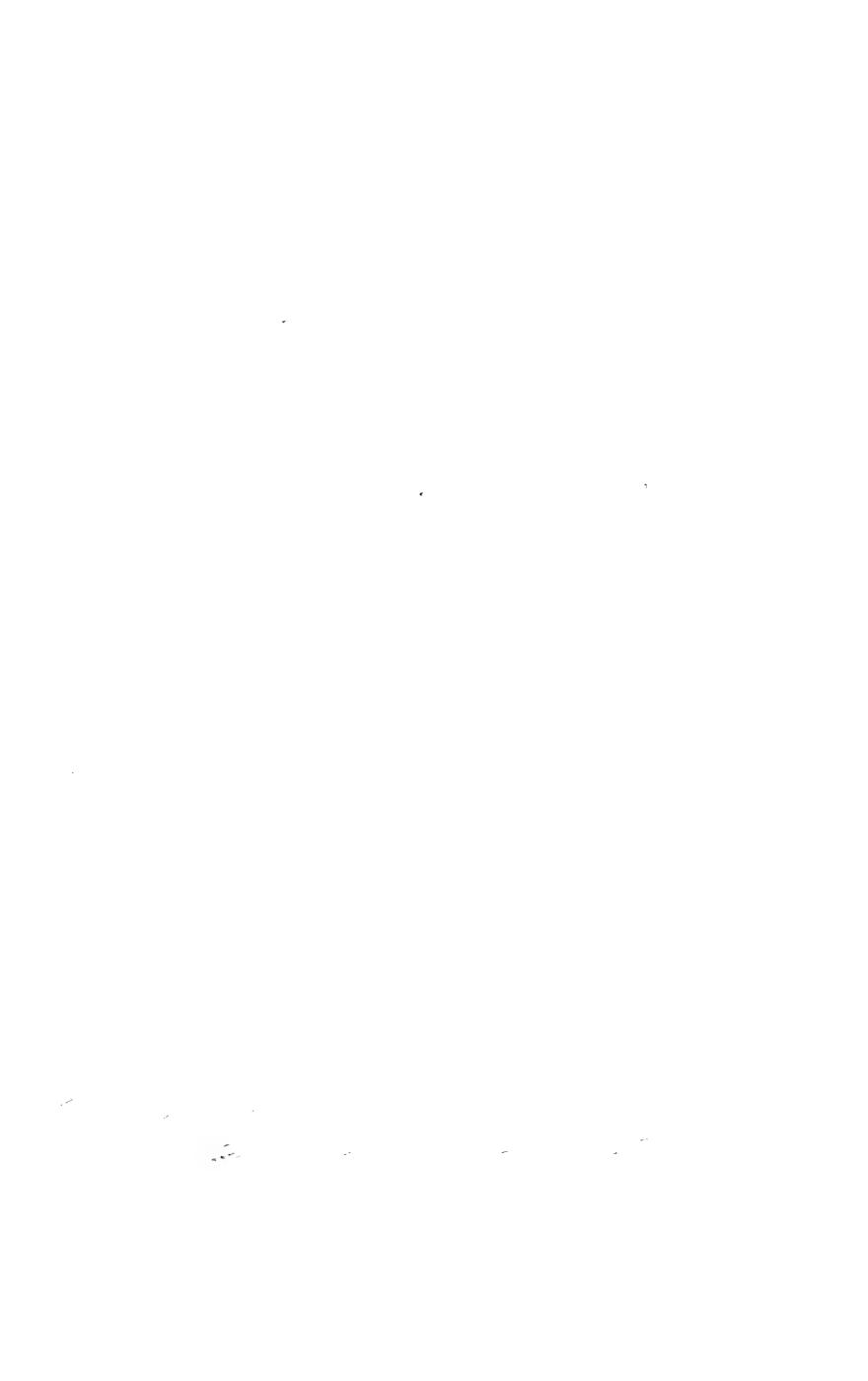
Expected. Summer page have.

Tirague seems to be a rebulous locality even to the votines here, and is further confused by their being a village Trague on the A.G.S. I i hulling map plus a larger town "Tirague Chio". The people of asked referred to this Trique Chio" as trague and booksed blank at the name.

cought 3 Phoselas and 2 abodon bolemenin. The offer, gracy

Turque Cheo.

Drone across the richer country, then set traps at several elevations about 5 mile well Triagne, 10,000 ft, but to avoid the confusion I shall call it 10 miles NE Private. This is another



windy windy place, all traps have to be placed in the bee of rocks where you hope not only the bout but the trap will remain. Heavy douds to the north but clear here, wind seem to be from seried directions, north, with north.

Sept. 16 Trap ste 1 - Scattered couly bunch grows, scattered bur busher (2/4)

such as boucharin, willow-leafed tola, lots goffen gravely ground,

tunded rocks from road. Cought I long-tould Hespersups, 3 Phyllotics

and found I recently Billed Phyllotic.

Trop site 2 - 1.3 km down the other. about the some but unta bogger & better woulder from the road, some Stepan.

Troffsite 3 - 5.8 km below (west) site 1. a boulder stream slope: coeture, several kinde of thorn bushes, Effedra, willow-leafed bush, a few localaris, so spring-leafed principple, no burchgrain. 4-foot tall column coeture plus various ball coeti. This is good country"—thorn + coeture interese site 1+2 are alliflano essentially. 3 Ph. wolffrohni and 1 Groungs. The Groungs in an adjoient trop.

Trap site 4 - a gulley with vegetation similar to 2 to 3, Iles 3 +4 are 1.4 km of set, strathle rook km. 50. Who were hook hear backing at on algorithe tree in the gulley returned to the got and state and a dozen traps. Benowsker had 2 Ph. wolffrohing

Total troper out 1 \ge bags. Moring light drygle, no und. About to get wolfshir and oxilar or darwing together.

Abund and dronoto Cockalanda. Left Cocka 4 p. m. and decided to ship collecting because the rood to Ornro was



going to be closed towarrow. How into boary snowfull almost as soon as I got up into the real country and some soon from there all the way ocrows the high country until just before of at midnights on the tola valley at about ken 60, about 1 2 hre out from Oruso. There was about 3 when of soon on the road wear the Cochahamla led and coming down hard, less on the arms end. I mice crossed the road, could have been longe the suplums. Because of the soon and the barrowing drive I was infrued at bour much high country the was between Ormo of Cocha,

Sept. 17 Off oyam at 6 a.m., clear, and arrived Ormo 8: 45 after blowant and refueling. all morning getting a tube for my other space, then off for yours. Some of the road gres verous a boy of Profro, 6 wells above water level, with flamingver, shore boda, curlem, shree, duche, + galla, Other parts of the Poopo pampa are sond dunes, other pure Festivan orthopolyis also Backarie and rehm and mittures of Boschains-rehm-Fest some cultivation, even in Festiva.

Couldn't resist a stony billaide with Baubaris Trehm and mong stone walk, a few condelabra costna. Parakeete Leve. till. Toyot to mention also who pompor with dury forh regetation best at them - puchum.

The trip line that was going to be so warsol gume 1 Marmosa, 2 Ph darwini, and 5 abodon. Hufsh! Morning clear, calm front on

Methoporto, orea laying female. Country about some to

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1.P. PEASS

Challafrata where it gets much sancher. One wan in " when asked about the road to this Mulator said it was good but a little sandy. Dozens of place where people bod to used tola and grade to except from soudy places in the rood showed that he was right. Much painfor unth Fistica orthophylla and drifted sand, also tola (mostly gradrangulare) and soid, and combinations of these plus iche and Margy viagens? also panyfras of dwarf forbes. Many treas, which they call tojos or tocas. a little cultivation, and a little graying (shelp, burrows llamas but mostly tucos + tola, a railrood station an hour worth of Kno Mulator had 5 acre-feet of out & bundled tola falled up by the tracks waiting to be shopped. Som a land of 6 venuas just worth of Rio Minhatas and 2 stray verior graying with lower just south of Do Minlator. Gorgeous pompos should have had lots

Stopped for a complete forwar for skining and laundry, then drove until 5:30 to 16 mi. ESE Rio Mulator, 12, 700 pt, Potosia Set one bog of trops in tola t bore stony ground (but no rock shelters or boulders). The tola 2-3 pt tall and to species including Boschoin, nowom boyed Boschoin, fepitably Boschoin, some stoped Boschoin, formy species, one reminest of marginishm but bogen. Only a confill of champs of Stope on the whole line; a few cushion costure and one love 8-foot phalic costure. Som 3 cars on the rood allday.

Sept. 19

myst clear, colon, nopost temp 6 a.m. +2°c. In trops nothing; one spring empty, Herd 2 groups of Twanstis, no

P. PEARSON (955

Testing right here but some nearly.

Drove to Vyuni for worl & gas, then east of town for topsintes.

Lto 1 - Pourpo, 1 mi. E Vyuni, 12,100 pt. Very base sourcy pourpor
with half-bearted pillower of yareto, dwarf grave, dred thorn

plante about 8 "light, and a peur falle of rocks wherethe

trafes are set. Lam 2 very small higards.

Site 2 - 2 mi. E Vyuni, 12,100 pts. Driftes sand and tola.

Site 3 - 5 mi E Vyuni, 13,000 pt, a rockey hill with

8-foot phallic castus, shorter furzy contry pollow cartus,

Explanta, and various tola, a few chungra of iche.

Sifet 20 The Uyuni. The light wind while lives setting trafes yesterday afterior

died down at dusk, cause of organ during the morning.

Head Twowster colling sow poulsets.

Line 1 bol 3 Eliphodonta; Line 2 bod 1 Eliphodonta; his 3

hod 5 Ph darwing 5 Bolomy almenter?, Many spring +
empty, probably by alrocono or Octobertomy?, whose scatte and
white wrine were abundant.

Haircut and negotiations for repair of space tire in Uyuni,

Howard and negotations for report of spare tie in Oyum, then set 1 \(\frac{1}{2}\log_2\) of trafer port may upt the hill east of town.

Not as high as Lite 3 glast night, not as much coetine; mostly love stong ground and 1-post narrow-based Bocchine, some cushion coetine and fuggy coetine but none of the big phaltic coetine. All sets along rood-supporting stone walls.

Eneming clear + calm.

chested out trep line at 8:30 pm. and had 2 Phylatic and discovered the bast the springs the treps. Out of a stone wall be churchled at me and with the pashight fault see only a form

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P. PEASSON 1955

sith lock brush at end). Could almost touch him.

Sept. 21 5 Ph darwini and 2 rusty Bolomys. at least 15 traps

opening & empty by October Two of them had joints of contine

in them, one of the joints half eater. This is to heart with

the white wrine, it is the wood not of this area.

asthe result of a great outrain of information of insurformat con about woodsfrom Uyum to Talpiga, I find myself confled in the center of a 200-yard unds boulder-streum river bed 6 2 hours out of Uyum, welving andowr stake in the und. almost certainly I took to way dine, because and have been wording down creek bottoms much of the afternoon and my last 2 hitchlikers till mettas is the Rio Blace Pam descending and that the town of this Blacomie 50 km. downstrans The rood went from Cymin to Unlargo, then west of Clare Ohno, near Cero Tasso, then differed into cruke bottoms Much space payer near Ulina, salty, story, sentlend Short tola, murloone views but seather and not (tetura 12500 + 13,100ft) noung mer discret bande. No obvious young. Bare evolet hills with very space tola; and protectly no people. as uninterlited as any part of the attitlant know. No cars on the rood. Tooked one of my 3 hutelibers how many case a day went by, and he said mee a week. The river bottom row is beginning to get goody with a mixture of busher, cacture (bound cardelabra), and a fourly by thorn trib 12/1 till and 8 miles drawn. Prostrially rogens. a four bouses now but nove ofstream. Several situation almost idential unt the Calpreni vod that I devold not to assend.

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Stofffed at 6:30 m mid-river look with rainfoun downstrain, thursde upsatream, sprinkle of rain leve. Down the plack floods; set some trops - a little over & log lefore it got dank.

athtrob 11,000ft. By Selmes trues. 30 mi. WNW Cotagaita.

Sept 22 Only one mouse in trops, a browner. about bolf of them spring + empty - berbally actodom. Off downstrain at 6:30 am. In 3 hours forded the Dio Bland 90 times.

Infact 100 crossings in first 35 miles, and some of the fords.

Infort 100 crossings in first 38 miles, and some of the fords deep enough to drown a passenger car. Not much change in regetation; fruit tree in From hit not represents Feb. + Mrank.

Cotagoita obout 11 am; welcourd by officials as thought west the first corin weeks. They bod to hunt up the large to the office to got the stamp to work my though de Ruta. Then about 4 hours to Trypinga. Interesting formers or who laver some of the plantest aminals. Colla Lahine "wolle", here the species name. It them tree costine good country all the may to Trypinga, campad in a spectamorally erolled Orelyda 1 mi. N Trypinga, 10,000 ft, with thom tree, cardelater costin, low officials, various shruke, a few church of richer. Joth of rocks. Habitat a let work offen most of sing and letwer plants) that them the good the wolffshire country that I have seen so for. It seems to seem to be cotoston here to.

Thus of gosts differ down the cargon good hype church, plans belooks with friends

gacklytting at 8. Heard an October in a part of low operation but couldn't see him. Poor will.

	Say "		
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Nothing in traffer, 2 spring empty, a few boits gove hyants. and suchamie canyon!

Truck wouldn't stopet. all morning to oftenoon getting to (upsige and locating a new condenser, and getting permission from the rationing board and the alcalde to change the oil + grease the truck. Drasing, timenofs etc. effectly done by bemetro Printo, the truck driver hould to kelp get me started. Lunch and suffer with his family - 5 doves that he collected with one shot of his 16 gar gun, He has 2 other shotgum. He knows 2 burde of humanous and recognized the Twamatic call.

Sept. 24 Of about 10 after selling Remetro the volavord camera at no frofit. He and his family come along and paced me for the first 7 miles to be sure that I could get across the San Juan Kines, Water about 3"over running board, but no trouble. The country south of Magarero becomes slightly brushier and wie champs of reha become common in addition to a sporse fuzz of died short grass in places, The relin and short your were almost lacking at the Tropinga canyon. Comped at yuruna, 20 m. 55 W Tuponga, Polosi, 10,500 ft. Here are thorn trees (no lever now), another tree of similar shofpe with fool grey-green books ong & pods and ting dissected leaves (but no leaves som), a 4-foot folded unth Tungs byger ton afgereil, ichn, sogvaro, a fem low spreading operation and goods. Port one boy of trops in spledra-torn and another in thorn-rehn-sagraro-sphedra, Mumerous guner progos octodon droffings.

Jackbythy reveled one Granny in a loop of thom brancher Left by woodenthers. Some eyeshine.



Sept. 25 yuma. The epshedra-thom trop him bod 4 Heaperouse, all in somewhat growy places (who). The cature-thora-ichen line bod 2 Heaperouse, (growy), & berooming (thorny), and, at heap one big other October. Egreyer, would have broken, postpose different, here more the down the promoter pust beyond the pueblo of yuruna the negatition changes abrightly. Mo more contine, no epshedra; a dry tola appearable a rarrow-leafed Bowlaria class a foot tall. The molecular fourfax 4 rolling hells of bushing thorn (not realtime and yuman), tola, and ichen. It lots of love ground.

Comped at 5 mi. I Villagon, 11,500 ft, at one of two rock outeroffs seen today, and the outeroff not providing much sheller for Phyllotis. Vegetation is tolo, grass (not iche but an out-blee stem) and widely scattled thorn bushes. Und to be some bogger than true but recently cut, cold & windy. About 1 4 bogs of trops out. Few phyllotisy places to set, I soots, sheep about and.

Goots, sheep, Aburoune.

26 Traps beld 5 Eliquedoutia (under thorn bushes on pumps),

3 Hesperoungs, I Bolomys (under thorn on prangen), and 2 Phyllotia

Darrier (in rocks), one of these in front of the only good burrow that

Prom. Night clear with light frost + dew.

aghastly dog westling with the advara. He won. Truck six impossible, four in a "hotel," go to argention town by

truin et 9:30 am.

Sefet 27. The holie official who stamps pariferts showed up at q a.m., Mod dash with suitable down railrood tracks which will toward train nouting at to Durosa station, Sward at gots says breed permit to pass with 100 mouse trops.

Mod dash boile to Villagon odvara who says don't

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need permit, but who under the wyever of the solvations dasher of a verso that gets we fast the Bolivain grand into argention. 10 minutes to go. an argentine grand exorts me to the argentine customs, where we want with the any interes advana shows up for work at q:30. Lo we set and watch my trainfault out. That's all right soys the grand, there will be another train day after tomorrow. Threeday 2 to travel 1 mile. at 3 p. m. found a truck bod of coca loving for Jujuy and got a ride on top. I be rood from to awaen to abrapampa is undefourfor unto mountains in the distance to the left and right, sometimes sandy, lote of two doggings. an argention possenger called them "tojo", not tuco-tuco. abrapanta is flat funder, short grans, margy rearposer tola, some burel grass, and some rocky hills Ember wood boun. These are the first hells close to road and look fine for the darwin Byht turn here for Casalundo. From alrepampa to Tres Cruces is more hilly, good altiflavo, OK for darwin. Park at Tres Crues but 1/4 moon exabled me to get an idea of the vegetation. Quite a stretch of tola and of good altiplano, then descent into a thorn zone. Thombusher and sogravo appear a little abone Humahura the dogword cactus being expecially dense for a while, Then a more and stretch between thursdoor and Telegra. Humshow, depute size of letters on wop, is much larger than Tileara- and quite charming, with old coloured street lights etc. No really brushy zone seen, these the thorn true zone.



Soft. To Tileara. The valley here is full of Foundardy Poplars, willows, a few Schwartres, and fruit tree such as pears, peoches, offples, chemis (in bloom), but the hills on both sdes are quite and. Put out 12 bogs of trops east of town and about 500 ft. hyker in an interesting combination of short gran, tola, epsedra (thele stems but not vearly as tall as at yurund, low offuntia a few clouds of rely, scattered sogvarro cacture, and much pillom pineapple. This is a pillom-forming plant that from 50 feest bolis like a medium - siged Tellandsia, but the banes are steeldingly shorts tityfed and stiff the blossom are long tubular, yellow, unch layer than Tellandia. This blow sineaffile down atter much of mytrafe line. Many good by rocks, but most or all the holer domosted, I fear, by October whose droftsings + wente urme mere obundant. I bogged down from extreme thirst before all the trafes were out. Cerried here with a great water deficit from Villayou and hadn't been able to make it if at the Hotel Experience and on poss in the welage, so our now drenking growth of local water.

Put out about a dozen were tryps along a slightly brushy stone wall wear be cemetery at dush.

Sept. 29 3 Ph growwith in the groveyord line and 7 Ph darwin in the killside line east of town. Also I abodon om hillside line.

at duch put about I bog of trope ground an alfalfa Pasture on to edge of town - stone wall, some brush, and plarge leafless thornless trees. Foto of trigs, haves & litter on to ground. The tree has loose shreddy

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1955

borh and compound leaves with alternate leaflety. Marky there is a historic algarish also with bronze tallet, Under this tree occurred (1819) some heroic deed during the war with Spann. The whole valley way have bod wany was trees at one time.

at 10p. in (after driver!) (but 2 bag of traffer (hymnonlight) around the countery.

Sept. 30

Theory line bod nothing. Stone wall around edge of pastine land 3 Ph. gramoster and I big Ph negotaria. The latter along stone wall, somewhat brushy, with schines trees. nowheater the stone wall, somewhat brushy, with schines trees. nowheater the stone wall proble, a drainable campon east of town. about a will further on and are a couple of forms that according to one of the people in Theory is the Mainara. There used to be a good rood to deporate, but schole stoles have narround it to a burrow trail. at appoints are a stream with waterfolks, Sogvaro, short tola, brushes, old stone walk, grass, a few continuent public, some pullow principles but not as much as on the bills nearby, a few willows, and some schools or algoritor. The stone walk with some brush and the tola with loose rock look like a

Surrow or Budin found.

a wold mind blowing up the valley most of the day unth mistry clouds on the nearly help, but mostly surroy here.

good meeting place for the darwin and grasmordle - an

Local yokelasay Sierra de Zenta is east of Humbura, not 10 kin E of Tilcorn as Phanereardel from Thomas. This moles sense with the A.G.5 map. Tilcorn abroat 2 bogs of traps out along broky stone walk. Early part of night cloudy, but clear in a.m. with highly frost in

Oct.1



1955

gramoides = caprime

places. another the nogolaria is some place, and a granwoides only 6 feet away. Two other granwoides elsewhere on the line. Haven't detected any difference in balilat profesence. Both we noctural, both with green regetable matter in storrock.

Det: 2 at 3:30 took the omnibue to Leon (two bours). In general it is seems to be a descent down the valley to greater rainfall.

Mainará - trifle more grass than Teleoror, otherwise some.

Permanore turnoff - some as Tileara.

Tumbaya - some grute brushy player, hillr with sograro and brushy soge.

Volcan - Valleyunth willows, universated greensward, dandelions. Sogvaro almost gove and hills grassier

2000 m. - Short grans and burch grans on last formy slope of valley; grans thorn bush on west foring.

Lean - West focing slope almost completely covered unth a brushy forest. East foring slope has tall brush on lower slopes and grass higher up. Both short grass many thorny species, and brush grass. The brush is 10-15 ft tall some trees, pretty well worked over by grots, comes, forses. Jan forces are grassy, little bore ground expert wider the brush, and much of this covered with small leave + twigs. In the valley are willows, evaluptus, fry, peacher, roses etc. Rarely snown here, more after in Tilcara.

Port out a little over one bog of traps ofter frown with a good woman. Mostly along stone walk on edge of brush and posture + bushy cemetary.

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Oct 2. Lean. Mot a trap touched, even by ants. The oxidal from here must have come from upon the burchogram. Oxogood's yala must be the one teturen here and juying, not the one on the H.G.S maps.

NE of Tileara.

In fine put out 2 logs of trops on held time worther station and about 500 ft hapen: word of them along 2 stone walls. One wall through bushgrass— when to others. The other wolf with bushgrass but also late of broken, bushes, a few trees: Seared up 2 smallish turamoun with more ruterrifted flight than walloffereto. altiflaro bide beloing, but the bushgrass line books or for a salar.

Could see for up & down the valley. The forest on the east side and gover for a will or so above Jeon. To the south the valley becomes much under, flatter.

Oct. 3 Leon & 4 Ph osilal, 1 Hesperomys, 1 Grynycterns; and 1 Moranous, the latter in one of the highest traps, near osilal. The opy also near osilal.

One oxilal was in the brushy-bunchgran line.

Search up 3 timmous: 2 smallish, one almost as big as adult Mothofroto, but different flight.

Sign at Leon station soys 1622 m. The river is not move than 50 ft. lower, so the labels on Simon's or Bodin's labels (1500) are appropriately brunded from Loon to for Owocar - 10 hours to you a total over 100 miles, garbage filed works, no seat.

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Sood burch grass up to Volcan; about certainly vailed here. Lignat Theora station song 2460 m, not 2300 as on British Minaeum appenience or Thomas paper. Fit labels of my specimen anorthingly. a little above Pursunoria is a statist of thorn-tree, sayvaro, ofpunta, unth a sprulshing of law grass. Lagrara cacture called cardon live.

Oct.4 all wrong getting comes border etc., then good as I wan redy to leave Villayon a carabiners forated two hetablishers off on me. They are probably coes sunggless. I explained in times that have going to set trops and composit and they sovid they were accordinate to this, but when fatoffed at 5:30, one of themasked where they mere going to not & sleep. I set trape outil clark, then took them down to anabodattonda when they said there were a botal. Two short bogs of traps in racky tota. 25 mi. NE Villayon, 12,200 ft. Most of the route here from Villayon has been stoney tola, with one guilroda of thom, sognars, & gress. Might cloudy, sprinteles of rain, black.

There is another tree Cruen west of gring, but probably

not the one where Simon (or Brokin?) collected.

Oct. 5 Traffs were in worth rocky Boscharis? 1-2 feet tall, with some other prompent to as a smell, especially along the bottom of the work. a few 6-foot thorny bushes, a few chungs of grass, and some short cach. Traffs cought 4 Ph. darwin. This locality, 25 mi. NE Villagon, is war a few late and "bottel" known as a arefron Honda.

Drone to Tarija. First part of drine more tota, then good pure rehn including a sumit at 13,000 ft. In one/slave

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a few pateles of Festiva. The Sawa locality is rehubert very rocky. Much of the country with caracarar, Kurammers eta, a talce with coots + flamingole Then a long rocky road descent to tarya, which is goot country. Much bore ground or sporse grain unto thorn tree, Lehmos, a few caets, and goats. Under cultivations are com, regetables etc., Ishus fruit tree (not cuture), cano brown. Thurdle and beauty rain at 4:30 delayed truft setting, but got out 2 bogs before darla in good good country along stone walle (not wany stone walle around) and on bouldered hill. Many guereafty droffsengs. Vegetation thornbush + thorn tree (including algaerobo), Schwas smaller sage" busher, and sparse grass and coetus (some low opentra, no Logvaro). One of the stone walls was sufflemented by thorn brancher falled along and on it. This bealty a few miles south of larga, 6700ft. Much bodlande bereabout.

Oct 6 Tropline with 7 Grannys, & abodon, and 1 Marmora.

morning sunny, clouds pouring over the mountain range to
the southeast. a great wany traps spring t empty, wany
boits stolen by ants.

Looked for spring should both in Tarja, then drove both toward Sama in search of Ph. granwooder or wolffrohin. Compet at 8200 ft. in seathered tola, them bushes, and burch grass (curly), with short grasses abundant also. Soil very shollow. A few algorrolos up to 10 ft or so. Tryles around a brushy house ruin, along a stout wall, and along a creek. Fate afternoon + evering cloudy. Nothero colling at dush. 10 miles NW Tarija. No coetus





I-O. Leona, 5300ft, from railrood station looking west, Oct. 3
Traps of 1 in tall brush (10-15ft) and fracture, heavily used
by goots, come, 4 horses, were untoweled . Traps of 2, (5800 pt.),
along a storewall through iche and a stone wall through
burkgrass-busker-bracken cought 1 Hesperomy, 1 Ofgungatoms
1 Morroso, and 4 Phyllotis oxilal.

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I-2 5mi. S. Tarija, 6700ft. Oct. 6. Thom-covered stone wall 42 ft toll. Thom tree, algorish, will, "sage", sparse grass, low opention. Since pray droppings.

Trops caught abodon and brannys.



I-3. 5mi. 5 Tarija, 6700ft. Oct. 6. Vegetation as above. Trops carylet abodon, Grannys, and Marmasa.

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I-4. 10 mi. N W Tarija, 8 200 ft. Oct. 7. leathers tola, thorn bushes, curly burch grass, short grass, no caetus. nothers abundant. many by carinvoronia ante.

Trake around bush-grown stone ruins (1) and stone wall (2) caught 3 abodon boliminis, 2 long-tiles Orygonys, and 1 Physlotia.



I-5. 25 mi-55 E canotagni, 11,500ft, Oct 8. Sagraro, thornbush, gross, cacture This is to lower edge of ichn, uffer edge of cacture thorn. along this rood-wall canget marmodo, 1+lesperange, and Phyllotics darwin



p. pr. Arson



I-6. 25 mi . SSE Caustagni, 11,500ft. Pilloufpireoffle and larger unarened principles in addition to regetation of I-5. andrownys aught along this strong wall.



V-7 25 mi. SSE Carrotagni, 11,500 ft. Oct. 8. a few hundred yards. from V-5 and V-6. Mary Phyllotia derwini along this rood wall.

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I-8. 20 mi-55 E Carratagni, 8500 ft. Oct. 9. Leatherd shrahe including thom trees rept to 10 ft and "vierote bush" up to 5 ft, gatapha, low openitia, achumpy sharp principale. Mo sogravo or fuzzy cactus. Practically no grass, no bush grass. Traphic (3 arrows) caught Grannys and Phyllotia experience



II-9. 20 mi. 55E Canotagni, 8500 ft. as above, Phyllotia coprimo carght at arrow.

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I-10 20 mi-SSE Carratogni, 8500pt, oct, q. Phyllotis cought along stone wall.



I-12 Camargo, 8500ft., Oct. 11. Slope similar to trop line that cought 3 Phyllotic copyrisms



Oct. 7 Trops had I Ph osile? 2 long tale Orygoings, and 3 absorber boliveries. The big, active ante present of almost every trop site when I set the trope turn out to be highly currinorous, but they left the corn weal bout alone. Which Mothers paging in

early a.m. Heavy dem.

Drove from 9 to 1; mostly curly burchgrow, as at overnights camps, of to summit, then good iche and margy reaffer from Sawa north. Itofffed early because it bolsed likes good Phyllotic country and the rook for ahead seemed to go through food country. Here seeme to be lower edge of reline and upsper edge of coetus—torn. Two bogs of trups set along rood-returny wall. Jots 9 sognars, frysy coetus, bow offents and other coeti, bow bushes who to 5ft high, pullow prively as at Theorem, soul shells as at Theory, siche, and assorted small shrubs. Reimminent of Jumma Cubilis not for away) but no sphelar, reimminent of Tilears, but grassier, Many October droffpings

Evening clear of windy. Ran half the trafer 5-9 and had 4 Hesperange, 2 Ph darwini, and I what books like Phonogolaria, very much still alme in the trap. Shot I Marrison in stone wall near big them bushed Theologity about 25 mi. SSE Canatague, 11,500ft; Tarija. actually there are a half dozua hota here that call themselver Ciengillas, but not on

nofe.

ot. 8. Mucho rationes. Fire more Pla moyalaris making 6 in all (there is considerable possibility that there are and monge, not nogolaris); a total of 4 Hesperomys?; the 1 Mormososhot; and 15 Ph. darwini. allof the mogolaries on the first part of the line, and most of the darwini around the corner on the second part.

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Ikining until 3 pm, then drove until 5, but & hour stock in mod. Stopped at 8500 ft, probably approaching El Prente and this San from (again). Set 2 bogs of traps along toons walls and rooking slopes

Oct -9

This booking 20 mi. 55E Countryin, 8500ft, Targo.

Suries pring here, and gooter In traffs were Graowy and Phyllotic.

One or two good Brownys, on few stody ones (Foromordia?), and
a lot of darwini? but longer-tailed than yesterday's, Total 20

mice, atting doe of genue Phyllotic & Graowy), nothing else.

Juck way have put me down in a place where Ph. groundles

is an intergrad or hybrid. In any event, form inafface where I can't tell what I'm catching, so am going to stay anotherwight to compound the confusion. 46 mice in 2 nights, 35 of them saved.

While runing my trops in o. m. a truck broke two teeth out of its differential (00 yorks from comp, so I had company all day who drank up all my water. Shamed until 3 pm, then towed the truck a mile down the rood to a comple of hute under big walle trees. My beality is about 2 miles south of the bidge over the San from Kiner, mayle 3 miles Sq a Public, Las Correras. For regetation see morain. But out (2 hogs of trops in about some beatrom as yesterby.

0at-10

This is good country also. Find said in the work, stony hillsides
brokently no grass, no bruch grass. Scattlered shrubs willing
such thorn true up to 10 pet, a create buch repto 5 ft, a small
"fig" similar to that at Chasier, assorted other bushes, westly
thorny, low openite, but no saguaro or fragzy catus. a
clumpy priesppo somewhat larger or more sergely than the one

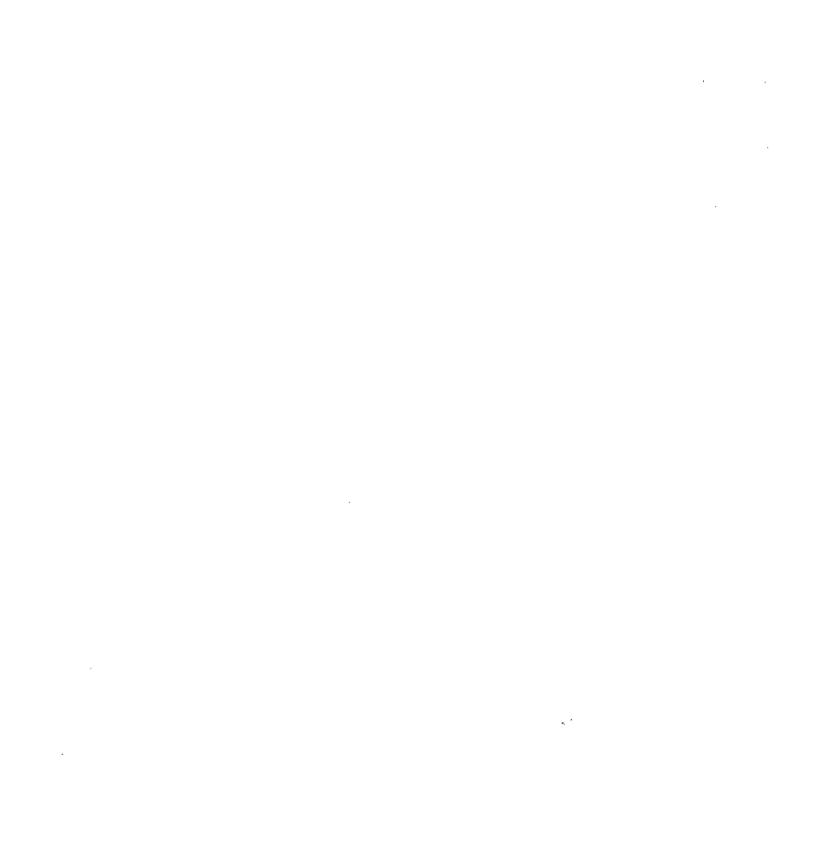
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at Tileara but similarly sharff pointes. Schwar a mile down strom near the rues.

13 widentifiable Growings - darwin - wolfarhin - growindle in the trops. Slaved with 11, then done worth upthe rolley to Camorgo at 4/pm. Much of the quebroda is some as at comp, but bushes become smaller, sporses to the worth, ferrer thorntrees, more kinds of courts offsear, and the willow - It lafed skrub. Very hot! In shode at won 35°C, and the road too rough to go fast enough to create a breegl. at 5/pm, cloudy, 34; and at 6/pm 32° after thundley bything in the hills vearly and a track of rain here: # 8:30 p. m, 250 and clear, It's not allysland, but Phyllotic ahundant!

Courago. Tenfs at 6 a.m., cloudy, 19°, 4 Phyllotis in traffs. This rolley has quite a few avocodos of griffer, the latter trained either on cano from tallises or affects severely formed Salmos trees, as you church up out of the north and of the volley regetation gets when. Cactus, thorn, brush, willow, Lelinas and lots of rock at 10,000ft; should be good tropping. Then a stately Mot unlike about 6000 ft. ?? alone Lina, Then a stretch of quenna Stopped at 12,300 pt. about 30 km. Short of Potosi. Here there are seathbred bushes (many of them thorny), fuggy creture, and a little bit of bunch grass. This is about it mi. by rood south of the Tupiyan-Camorgo - Potosi fork, call 20 mi. 5. Potosi.

Put out 2 boy of treps along bushy stone malle, mostly after



Oct. 12 Troppine, despite being set often dorle, did very well. 6 andrionys, 1 Mormon, 1 alsodon, and 13 Ph. darwin. andwangs has droffings we afterned than wost rate, and in shettered crawines there may be a copor more of them. Surren proj droppings herealer, plue gurier py should. Drove to Potosi where every thing was closed because of fresta. Ph bolimensis near Votori, run veran road. Then drove towards Oruro and slawed. Stoffed of ter dork about 110 lam, out of war Votosi. Road goes though much good altislavor welvding relin, Festives, and tola. In some places equal amounts of testing & stipe, all day on the fotosi-Omo road and passed are vehicles. Off at down to Oruso, then about 60 law more toward folay, him at 5 pm just north of arura, about an hour east of Challofata is a short-gran pour blace Kehn Vichumi and with summer two wounds (not make freshotat) and poll, summer treas. These less sky. I would

Prehami and with similar two wounds (not make fresh diet) and pale, similar tweas. These less sky. Punks and one widdledower and leard so bubbling.

Similar treas also a few wills worth of challepota,

Oct. 14 For Vayat man. Harslemth advana and hunt for shalle bolt.

Oct 15. advans soys morting. Went to see another advana, and he find
things up by 11:30. I food a 10,000 bolimore fine for not reporting to the
odinar in Ornero, and the advana at Desagrodero was suspended
for 10 days for allowing me to enter Bolima unth faulty papers.
Off for Pino, but had to wont onempt for the San Redro ferry.



Oct. 16 Cofacolouro - Jurguyor - Puro, The number of odvaras, traffic controls, guardia civiles, immigraciones, vigilenias, etc. in both Bolinia & Peru absolutely unbehevallo. Their boggist import must be teel huin to obsetch ourse rock at control stations. Helpt at Puro gravel fit.

Oct. 17. all day yetting car greated, shoulded, and reclaiming my

Oct. 18 Foto of vines at It roughow, but nowhere else, about some we when Carl was there. One hard of 35. youngstill in lards. Stofffed for clout 2 hours at our training place, but some of Learn of Learn of Learn in the same of the sa

Oct 19 Temp. -11° at 5:30 a.m. One book broke brozen (from fording stram shortly before stoffping). Removed wheel and built fine under it. Very rough road to arguipe then, mirabile, powed to camona. Susset through a comple of lower all annal "flower, no gran-but couldn't find a camping place with any registion.

Stoffped tetween comma and atoes. Nortraps.

The wountaining my grower bolitet photo on previous try are chocking (* nape ampato), and the coastat valley photo is Rio Sihvas with Merodo ampato.

Oct-20 Sour a foth crossing the road toward bruch gestiring in bruse desert, and another today with of ation at this place there is a cloud topped hill with bushy regetation (and away) about a hely will improve the ocean. The foth ment down a cliff to the rocky shore line and foreged along the shore, southwas getting with from the spray. It ad practicity no hair antial.

South of ation is a place with large fluted coeting, smaller coutins, flowers, and a pour shrows, place tota of rockers. Jooks





god for Phyllotia.

month of chala is some good foggy love. Just after you emerge into the sunking, the north end of it, the vegetation stops. at this bount a strong east wind was blowing, a few mules futher on a strong west wind was blowing sand during ourse the road.

Put out 12 bags of trape on two kills of Tillandson stilling out above almost pure desert. Some likens around base of hills, then mostly tillundaria although a few seculents, a few swall costs, and a few flowers. Mo definite signs of wice although a few burrowse plugged with believe room the base of one of the hills. For tracks. I have shells. Mo bids seen. These bulk are at lam, 499 and \$501 5 of fine.

* The believe tend to collect in defressions, here not/plugged, also, they are probably droppings by bot after arthropods. Found one for dropping with only arthropods.

Oct. 21

morning foogy. Trefts untorcled. This stop 12 km. by rood Softe Marcova crossrood. Jour vegetation stopped a few winder Not the crossrood and the sun convent of the. Stapped at beach worth of Chincha for cornorant of pelean shaltons, then north to an old camp come is cariete, nightly little regetation have. a few I landsia (90 Talesa), a few sair rate cacture, and believes. Int out 12 boys of traps. Found the amine shelter on top of said.

Cot 22 Mothing in trops. For the Drove to Lino, then set a bog of traps at 1 min w Lurco (Dodge place) and some rat trops +5 museum spends of 1 min E. Som Bortolomie zwings hat (Roce).

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Slept of Chosia. Oct 23 Traps at I mi. W Surco bod I Mun, 3 Ph andmin, 6 Ph. amins, and 1 Zunga rat. May spring empter, probably by Zunga rats. at I m. E San Bartolome, the 5 rut traffer bouted with boson hed 4 Junga rata, I not spring. Two of the rate body laten. The 5 museum specials bouted with com weal were all spring + emply . This place must be alwe with zunga rate. Sterning and by pocking spree, then back to Chasia. Oseoba is about a mile or so below San Bartabune. "How high can uning go?" by H. B. Cooke, pr. in Mining world L world mining Section 144-48, 71. argust 1954 telle of a sulfur mue in i chile (auconguilcha) 5 mi . 5 of the Bolum borner and 16 mm w of Ollagne, Chiles. The mine workings... reach about 20,200 feet mathende. Mum temperatures ... at averaguelon, mins 35°F. The wohum revold of averymeter sur 1913 is 36 F. youth Its colonfie volume 6,300 British Thermal Unte per pand - half that of bottomina cool."
In table Mo. 1 liste 50 mine above and 5, all in N Chile, 19,000ft or hyler. Lista Cutufren as no 8, at 18,400; 11 miner 18 00 ift or hyper at aulebo, "... the mire amp, which is 17,500 ft lige, mit he rear mais ling ceiling. Foresty the course was a thornard feet higher, but the miles could not sleep will their and last might, so it was would down to taperent site. There the nurse may play frotal often churry on foot to the mine, northing seven

long, and ming down the moutains."

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QT 26 Left with Krephee by train for San Bartolome, thank yarata. We all probed out about an hour short of zarate, so left poeles and went on to set tryps and get water. Fut out about 40 traps, mostly along the trail under rocks in the farest. Saw a weasel carying a mone, in a rock slide. Mura Kofflee shot it time unthezzakot but don't stoff it.

Oct. 27 garate. I refer feld I Phythetia and min and z afaodon. The forest is offen enough in places so that there is died grave (abodon) and brush (Phyllotie). The forest is on a steel south-foring slope and continue trees if more than 2 feet DBH. Most conference are a big-leafed tree remmanent of sycamore with byger leaves and with green . 45 colher fruits refreing and a smaller tree with shape and foliage of have vale and bark of workere. about 3 other species of trees also. The woods are very dry now, but in the thelier parts there is heavy mass covering the trember, harging liken, and brownshide. Many of the trees are topped by dried were (but not Ibaras). In the thicker part of the woods are many big onerhanging rocks. There walls have been built if under them and along and, forming cause for burnel. Some of these have dozen of skeleton in themplus donde of grate. (rules > 1 foot DBH have grown up since the walk were node. The floor of the forest is open, leafy, with mulch. The Koopless say that after the runs the floor is a mass of green of flowers and wang of the tre roume are immable. because of the vila.

Put out traps arrong the grave walk in forest behind (above) the company (stee and also along the brushy bottom of

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IARSON 1955



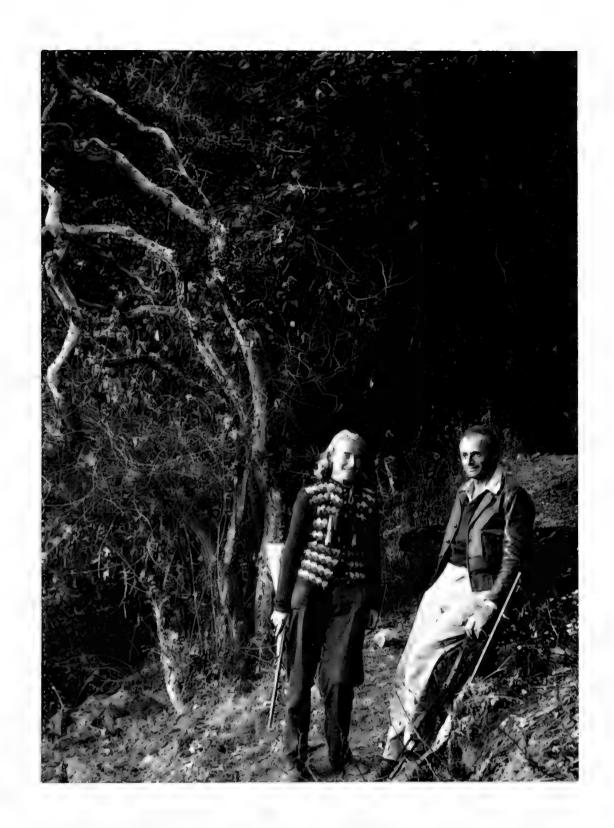
Dra. Koepele at Zarate, Defit of Lina

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Dr. Kreficke in the forest of zarate

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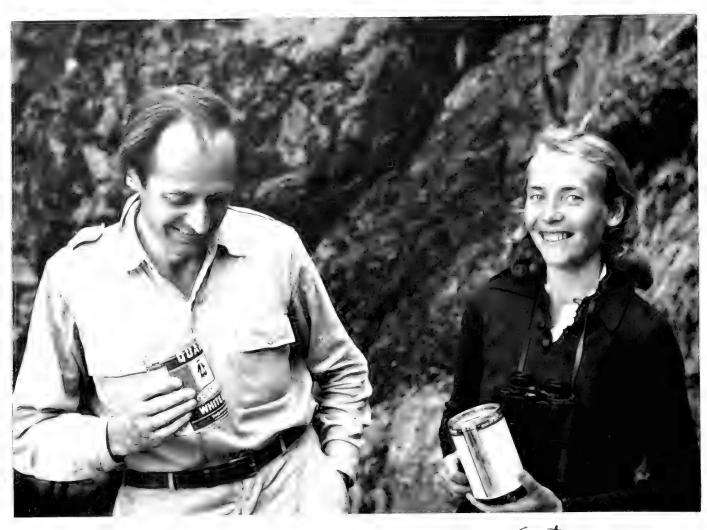
Dra. and Dr. Lepele in the forest at zarute



P. P. 1955 -



Son Bartolome from the trail to Zarate



Dr. and Dra. Koeficke at zarate

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a cliff above the bill between the forest and the spring to the west of the forest 75 to trape altogether. commend bout Oct. 28 Two Phyllotis and in the brushy line and 6 in the forest line. also 1 at the weasel place. (abodon in the forest line.

Port ant a his of traps in bushy place near upper edge of forest, the bushes in clumps 6-12 ft tab, and another line in the gloomiest part of the forest. Dr. Koeplee ineappointated alloughy senere rheumatism. I one but flying at a druck and another under the trees of ter dark.

Oct-29

Oct-30

Hvited finds to the spring east or forest and bock, then
off to San Bartolonie. 10 hours down, Dr. Kulpher proceeding
unth control and with great pain.
We collected at Zarata 4 Zaratornia and estimate that

We collected at Zarata 4 Javatornia and estimate that the total population of the forest enas 15 industrale, all females. It is unlikely that the malls line or visit at Zarate.

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They lotice and in; abodom to timening?, I Mirroray youngs? cought, probably shought trakes seen and totaflying. Some longe robert droppings seen must be tottom of a chiff and in a boulder still may be visionly (Kriffelse bour seen and abletet visionly my the Santa Endown vally as been as 2200 m). A few word species swelly line though but the round is not a frest found. I Mornison abunit certainly here].

The forest has not here found by the forest species

Mor. 2 from. The Oregon geologist at the person (Bernstein) says that a consulting geologist willard C. four from Oning arison has started the Carhvarray - Cerro miner much and published a semi-popular article on them in "El Serrano" about 5 ept. no. ot. 1952.

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